

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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RT111 Hardener

Revision 7

Revision date 2015-05-20

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name RT111 Hardener

1.3. Details of the supplier of the safety data sheet

Company ResinTech Limited
Address Horcott, Fairford,
Gloucestershire GL7 4BX
Web www.resintech.co.uk
Telephone +44 (0)1285 712755
Fax +44 (0)1285 712999
Email info@resintech.co.uk

SECTION 2: Hazards identification


2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC
C; R34 Xn; R22-62-63 Xi; R43 N; R50/53
Symbols: C: Corrosive. N: Dangerous for the environment.

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.

2.1.2. Classification - EC 1272/2008
Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317;

2.2. Label elements

Hazard pictograms 

Signal Word Danger

Hazard Statement
Acute Tox. 4: H302 - Harmful if swallowed.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Sens. 1: H317 - May cause an allergic skin reaction.

Precautionary Statement: Prevention
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement: Response
P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of water/ .
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.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Precautionary Statement: Disposal
P501 - Dispose of contents/container to

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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 Number	Conc. (%w/w)	Classification	M-factor.
TOFA Reaction product with TEPA		68953-36-6	273-201-6		10 - 20%	Xi; R43	
Nonylphenol	601-053-00-8	25154-52-3	246-672-0		60 - 80%	Repr. Cat. 3; R62-63 Xn; R22 C; R34 N; R50/53	
N-aminoethylpiperazine	612-105-00-4	140-31-8	205-411-0		10 - 20%	Xn; R21/22 C; R34 R43 R52/53	
Tetraethylenepentamine	612-060-00-0	112-57-2	203-986-2		0.5 - 1%	Xn; R21/22 C; R34 R43 N; R51/53	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
TOFA Reaction product with TEPA		68953-36-6	273-201-6		10 - 20%	Skin Sens. 1: H317;	
Nonylphenol	601-053-00-8	25154-52-3	246-672-0		60 - 80%	Repr. 2: H361fd; Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;	
N-aminoethylpiperazine	612-105-00-4	140-31-8	205-411-0		10 - 20%	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412;	
Tetraethylenepentamine	612-060-00-0	112-57-2	203-986-2		0.5 - 1%	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 2: H411;	

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation	Move the exposed person to fresh air. If you feel unwell, seek medical advice (show the label where possible).
Eye contact	Causes burns. Causes severe inflammation and may damage the cornea. Seek medical attention.
Skin contact	Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

	Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.
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5.2. Special hazards arising from the substance or mixture

	Corrosive. Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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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 in a cool, dry, well ventilated area. Keep containers tightly closed.

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 measures

Wear chemical protective clothing.

Eye / face protection

Approved safety goggles.

Skin protection - Handprotection

Chemical resistant gloves (PVC).

Respiratory protection

Wear: Wear suitable respiratory equipment when necessary.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	= Liquid
Colour	= Amber
Odour	= Characteristic

SECTION 10: Stability and reactivity**10.2. Chemical stability**

Stable under normal conditions.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Skin corrosion/irritation**

Causes burns.

SECTION 12: Ecological information**SECTION 13: Disposal considerations****General information**

Dispose of in compliance with all local and national regulations.

SECTION 14: Transport information**Hazard pictograms****14.1. UN number**

UN1760

14.2. UN proper shipping name

CORROSIVE LIQUID, N.O.S. (nonylphenol,N-aminoethylpiperazine)

14.3. Transport hazard class(es)

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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	III
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14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code	F-A S-B
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IATA

Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction (Passenger)	852
Maximum quantity	5 L

SECTION 15: Regulatory information

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas: 2 - 2.1.2. Classification - EC 1272/2008. 2 - Hazard pictograms. 2 - Signal Word. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Storage. 2 - Precautionary Statement: Disposal. 4 - Inhalation. 12 - 12.1. Toxicity.
Text of risk phrases in Section 3	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. R63 - Possible risk of harm to the unborn child.

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Other information**Text of Hazard Statements in Section 3**

Skin Sens. 1: H317 - May cause an allergic skin reaction.
Acute Tox. 4: H302 - Harmful if swallowed.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Repr. 2: H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Acute Tox. 4: H312 - Harmful in contact with skin.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

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.