

## SAFETY DATA SHEET

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### RX771C/NC

Revision 2  
Revision date 9-May-2008

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

**Product name** RX771C/NC  
**Company** Robnor Resins Ltd  
Hunts Rise  
South Marston Park  
Swindon  
Wiltshire  
SN3 4TE  
support@robnor.co.uk  
www.robnor.co.uk  
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**Emergency telephone number** +44 07831 130543

#### 2 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.

#### 3 . COMPOSITION / INFORMATION ON INGREDIENTS.

##### Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
2-ETHYLHEXYL GLICIDYL ETHER	10 - 20%	2461-15-6		Xi;R43
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight <700)	80 - 90%	25068-38-6		Xi; R36/38-43 N; R51/53

#### 4. FIRST AID MEASURES

**Skin contact** Wash with soap and water. Seek medical attention if irritation or symptoms persist.  
**Eye contact** Rinse immediately with plenty of water for 15 minutes holding the eyelids open.  
**Inhalation** Move the exposed person to fresh air. Seek medical attention.  
**Ingestion** Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING. Immediate medical attention is required. If unconscious place in the recovery position.

#### 5. FIRE FIGHTING MEASURES

**Extinguishing media** Water spray. Carbon dioxide (CO2) Alcohol resistant foam. Dry chemical. Do NOT use ... Water jet.  
**Fire hazards** obnoxious and toxic fumes may be formed in fire conditions.  
**Protective equipment** Wear: Self-contained breathing apparatus.

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<b>Personal precautions</b>	Wear suitable protective equipment. Ensure adequate ventilation of the working area. Surfaces contaminated with the product will become slippery.
<b>Environmental precautions</b>	Do not let product contaminate subsoil. Do not flush into surface water. Do not allow product to enter drains.
<b>Clean up methods</b>	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Avoid contact with eyes and skin. Do not eat, drink or smoke in areas where this product is used or stored. Wear suitable protective equipment. Use in a well ventilated area. Take precautionary measures against static discharges. Open container carefully. Appropriate local exhaust ventilation is required.
<b>Storage</b>	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Do not store with food, drink and animal feed stuffs..

**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 (plastic)
<b>Eye protection</b>	Approved safety goggles. Face shield.
<b>Protective equipment</b>	Wear protective clothing. Safety shoes.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Description</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Odourless.
<b>Boiling point</b>	200°C
<b>Flash point</b>	200°C
<b>Relative density</b>	1.21

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Heat, sparks and open flames.
<b>Materials to avoid</b>	Strong acids and strong bases. Strong oxidising agents.
<b>Hazardous decomposition products</b>	Carbon oxides.

**11. TOXICOLOGICAL INFORMATION**

<b>Corrosivity</b>	Irritating to eyes and skin.
<b>Sensitization</b>	May cause sensitisation by skin contact.
<b>Repeated or prolonged exposure</b>	Prolonged or repeated exposure may cause irritation to skin and mucous membranes.

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	May cause long-term adverse effects in the aquatic environment.
<b>Degradability</b>	Not readily biodegradable.



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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.

**General information**

IT SHOULD BE NOTED THAT THIS PRODUCT IS INTENDED FOR USE WITH A HARDENER DESIGNATED BY ROBNOR RESINS LTD. THE CORRESPONDING SAFETY DATA FOR THAT HARDENER MUST BE STUDIED ALONG WITH THE DATA ON THIS SHEET PRIOR TO USE. USING HARDENERS WHICH HAVE NOT BEEN SUPPLIED AND/OR RECOMMENDED BY ROBNOR RESINS LTD FOR USE WITH THIS PRODUCT IS POTENTIALLY HAZARDOUS AND SHOULD NOT BE CONTEMPLATED.

Safety instructions and operating procedures for specified tasks must be written, communicated and enforced. These will include:

- \*\*Provision of hazard information and training of personnel based on operating procedures and safety data sheets, together with instructions on how to avoid exposure.
- \*\*Assessment of the risk of exposure and contact after all reasonable practical steps have been taken to avoid exposure, selection of suitable personal protective equipment and implementation of an appropriate programme.
- \*\*Provision of facilities for washing, storage of clothing and skin care and promotion of their use.
- \*\*Close supervision to identify failure in the performance of process controls or in following operating instructions, the occurrence of irritation and inadequate use of personal protective equipment. Assessment should also be made of the need for industrial personal hygiene and medical surveillance, and provision of appropriate services.

Occupational dermatitis contracted during exposure to resin systems is a reportable disease under Schedule 3 of the RIDDOR regulations (UK). Form F2508A available from the HSE should be used for such notification.

It is a statutory requirement that Medical Supervision is carried out when using products, which can cause an identifiable disease, there is reasonable likelihood that the disease may occur under the particular conditions of work and there are valid techniques for detecting indications of the disease.

The Safety Data Sheet was compiled using information gathered concerning its individual components. We know no synergistic effects but we cannot exclude the existence of such effects.

If this product is to be machined in any way then the toxicological information in Section 11 and the information concerning respiratory protection in Section 8 should be noted.

**Revision**

This document differs from the previous version in the following areas:  
 2 - hazardous ingredients.  
 15 - symbols.  
 16 - text of risk phrases in Section 2.

**Ident-No: ARADUR HY 1300 GB**

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Revision Date 26.10.2007

Print Date 02.11.2007

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

### Product information

Trade name : ARADUR HY 1300 GB

Use : Component used for the manufacture of electrical insulation parts

Company : Huntsman Advanced Materials (Europe)BVBA  
Everslaan 45  
3078 Everberg / Belgium

Telephone : +41619661599  
Telefax : +41619661589  
Emergency telephone number : +41 61 966 40 00 (in France ORFILA : +33(0)145425959)

For further Product EHS related questions concerning this document or its contents, please contact:  
E-Mail: [global\\_product\\_ehs\\_admat@huntsman.com](mailto:global_product_ehs_admat@huntsman.com)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical nature

Modified polyamine preparation

### Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrases(s)	Concentration [%]
polyoxypropylene triamine	39423-51-3	C	R21/22 R34	70.00 - 82.00
triethylenetetramine EC-No.: 203-950-6	112-24-3	C	R21 R34 R43 R52/53	12.00 - 20.00
salicylic acid EC-No.: 200-712-3	69-72-7	Xn	R20/22 R41	2.00 - 8.00

## 3. HAZARDS IDENTIFICATION

Causes burns.  
Harmful in contact with skin and if swallowed.  
May cause sensitization by skin contact.

## 4. FIRST AID MEASURES

Inhalation : Move to fresh air.  
If symptoms persist, call a physician.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes.  
Call a physician immediately.

Skin contact : Wash off with soap and plenty of water.

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Ingestion : If skin irritation persists, call a physician.  
: Immediately give plenty of water (if possible charcoal slurry).  
If a person vomits when lying on his back, place him in the recovery position.  
Oxygen or artificial respiration if needed.  
Do not induce vomiting.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray.  
Carbon dioxide (CO<sub>2</sub>).  
Foam.  
Dry powder.

Extinguishing media which must not be used for safety reasons : High volume water jet.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.

Further information : Burning produces obnoxious and toxic fumes.  
Carbon oxides.  
Nitrogen oxides.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Keep away from sources of ignition - No smoking.  
Avoid contact with skin, eyes and clothing.  
Do not breathe vapours/dust.

Environmental precautions : Prevent product from entering drains.  
Do not contaminate surface water.  
Avoid subsoil penetration.

Methods for cleaning up : Soak up with inert absorbent material and dispose of as hazardous waste.

## 7. HANDLING AND STORAGE

### Handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Avoid formation of aerosol.  
Ensure adequate ventilation.  
Handle and open container with care.

### Storage

Further information on storage conditions : Keep away from food, drink and animal feeding stuffs.  
Keep container tightly closed.

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Store at room temperature in the original container.

Storage hazard class : Storage class 8, Corrosive substances  
Huntsman Advanced  
Materials

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
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#### Engineering measures

No special precautions required.

#### Personal protective equipment

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.  
Filter type AX-P2 (organic vapours, particles)

Eye protection : Tightly fitting safety goggles.  
Face-shield.

Hand protection : Material of gloves for long term application (BTT>480 min):  
Butyl rubber  
Ethyl Vinyl Alcohol Laminate (EVAL)  
Material of gloves for short term/splash application (10 min<BTT<480 min):  
Nitrile rubber  
Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US).  
Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.  
Additional information can be found for instance at [www.gisbau.de](http://www.gisbau.de)

Skin and body protection : Protective suit.  
Safety shoes.

Protective measures : Keep away from sources of ignition - No smoking.  
Avoid contact with skin, eyes and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Colour : light brown

Odour : amine-like

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pH	:	11 at (20 °C) 1:1 in water
Boiling point	:	> 200 °C
Thermal decomposition	:	> 200 °C
Flash point	:	> 150 °C Method: DIN 51758 (Pensky-Martens Closed Cup)
Vapour pressure	:	< 100 Pa at 20 °C
Density	:	1 g/cm <sup>3</sup> at 25 °C
Water solubility	:	at 20 °C Note: partly miscible
Miscibility with water	:	miscible
Viscosity, dynamic	:	160 - 200 mPa.s at 25 °C

**10. STABILITY AND REACTIVITY**

Conditions to avoid	:	Note: Take necessary action to avoid static electricity discharge.
Materials to avoid	:	Strong acids and strong bases. Strong oxidizing agents.
Hazardous decomposition products	:	Burning produces obnoxious and toxic fumes.  Carbon oxides.  Nitrogen oxides.

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	:	LD50 rat Dose: approx. 265 mg/kg
Eye irritation	:	Corrosive rabbit
Skin irritation	:	Corrosive rabbit dermal
Sensitization	:	sensitizing guinea pig



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dermal

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

### Further information on ecology

Additional ecological information : Avoid subsoil penetration.  
Prevent product from entering drains.  
Do not contaminate surface water.

## 13. DISPOSAL CONSIDERATIONS

Product : Waste Key Number: 070204  
Must be incinerated, when in compliance with local regulations.

Container : Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

## 14. TRANSPORT INFORMATION

### Land transport

#### ADR:

UN-No: 3267  
Class: 8  
Classification code: C7  
Packaging group: III  
Risk No.: 80  
ADR/RID-Labels: 8  
Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
contains: ALIPHATIC POLYAMINE

#### RID:

UN-No: 3267  
Class: 8  
Packaging group: III  
Risk No.: 80  
ADR/RID-Labels: 8  
Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
contains: ALIPHATIC POLYAMINE

### Sea transport

#### IMDG:

UN-No: 3267

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Class: 8  
Packaging group: III  
ADR/RID-Labels: 8  
MFAG:  
EmS: F-A S-B  
Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
contains: (ALIPHATIC POLYAMINE)

**Air transport**

*IATA-DGR:*

UN/ID No.: UN 3267  
Class: 8  
Packaging group: III  
Packing instruction (cargo aircraft): 820  
Max. Qty/Pack.: 60.00 L  
( 999.00 = No limit )  
Packing instruction (passenger aircraft): 818  
Max. Qty/Pack.: 5.00 L  
( 999.00 = No limit )  
ADR/RID-Labels: 8  
Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
contains: (ALIPHATIC POLYAMINE)

**15. REGULATORY INFORMATION**

**Labelling according to EEC Directive**

Labelling required

Symbol(s) : C Corrosive

R-phrase(s) : R34 Causes burns.  
R21/22 Harmful in contact with skin and if  
swallowed.  
R43 May cause sensitization by skin contact.

S-phrase(s) : S26 In case of contact with eyes, rinse  
immediately with plenty of water and seek  
medical advice.  
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  
label where possible).

Hazardous components : polyoxypropylene triamine  
which must be listed on the  
label

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triethylenetetramine  
EC-No.: 203-950-6

**National legislation**

**Notification status**

- : AICS yes
- : TSCA yes
- : DSL yes
- : INV (CN) yes
- : PICCS (PH) yes
- : EINECS yes
- : KECI (KR) yes

**16. OTHER INFORMATION**

**List of R-phrases (Section 2)**

R20/22	Harmful by inhalation and if swallowed.
R21	Harmful in contact with skin.
R21/22	Harmful in contact with skin and if swallowed.
R34	Causes burns.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974. Users of products supplied by Huntsman Advanced Materials should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).

All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications. No statements shall be incorporated in any contract unless expressly agreed in writing nor construed as recommending the use of any

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product in conflict of any patent. All goods are supplied subject to Huntsman Advanced Materials General Conditions of Sale.