

SAFETY DATA SHEET

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RX439N/NC

Revision 10
Revision date 11-Jun-2008

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name RX439N/NC
Company Robnor Resins Ltd
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2 HAZARDS IDENTIFICATION.

Main hazards Irritating to eyes and skin. May cause sensitisation by skin contact. Harmful 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
1,3-bis(2,3-Epoxypropoxy)butane	1 - 10%	2425-79-8	219-371-7	Xn; R20/21 Xi; R36/38 R43
2,3 - Epoxy propyl ester of mixed trialkyl acetic acids	1 - 10%	26761-45-5		Xi;R43 N;R51/53
REACTION PRODUCT: BISPHENOL A - (EPICHLOROHYDRIN); EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <700)	10 - 20%	25068-38-6		Xi;R36 Xi;R38 Xi;R43 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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6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Handling	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.
Storage	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

Engineering measures	Ensure adequate ventilation of the working area.
Respiratory protection	Wear: Suitable respiratory equipment.
Hand protection	Chemical resistant gloves (plastic)
Eye protection	Approved safety goggles. Face shield.
Protective equipment	Wear protective clothing. Safety shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Colour	White.
Odour	Slight.
Boiling point	200°C
Flash point	245°C
Vapour pressure	0.01Pa 20°C
Relative density	2.06

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

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

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General information	Can be incinerated if in compliance with local and national regulations.
Disposal of packaging	Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

14. TRANSPORT INFORMATION**ADR/RID**

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

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 (Cargo) 914	Maximum quantity 450 L
Packing Instruction (Passenger) 914	Maximum quantity 450 L

15. REGULATORY INFORMATION**Symbols** Xi - Irritant**Risk phrases**

R36/38 - Irritating to eyes and skin.
 R43 - May cause sensitisation by skin contact.
 R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

S24 - Avoid contact with skin.
 S37 - Wear suitable gloves.

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R20/21 - Harmful by inhalation and in contact with skin.
 R36 - Irritating to eyes.
 R36/38 - Irritating to eyes and skin.
 R38 - Irritating to 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 LIMITED. 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 LIMITED 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.

This 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:

- 9 - relative density.
- 14 - aDR/RID.