

HL116F/NC

Issue date: 06 June 2003

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name	HL116F/NC
Company	Robnor Resins Ltd Hunts Rise South Marston Park Swindon Wiltshire SN3 4TE +44 (0)1793 823741 +44 (0)1793 827033 support@robnor.co.uk www.robnor.co.uk +44 07831 130543

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	DIPHENYLMETHANEDIISOCYANATE, ISOMERS & HOMOLOGUES 90-100% 009016-87-9 Xn;R20 Xi;R36 Xi;R37 Xi;R38 Xn;R42 Xi;R43
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3. HAZARDS IDENTIFICATION

Main hazards	Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.
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4. FIRST AID MEASURES

Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Inhalation	Move to fresh air. Consult a physician after significant exposure. Oxygen or artificial respiration if needed.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	dry chemical dry powder dry sand alcohol-resistant foam carbon dioxide (CO2)
Extinguishing media which must not be used for safety reasons	high volume water jet
Specific hazards	Fire may cause highly toxic or corrosive fumes to evolve.
Special protective equipment for firefighters	In the event of fire, wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Contaminated surfaces will be extremely slippery.
Environmental precautions	Avoid subsoil penetration. Do not allow material to contaminate ground water system. Prevent product from entering drains. Prevent further leakage or spillage. Do not contaminate surface water.

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Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Flush with plenty of water.

7. HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Do not smoke. Handle and open container with care. Keep away from open flames, hot surfaces and sources of ignition. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Take precautionary measures against static discharges.

Storage Keep at temperatures between 15 and 25°C. Keep container tightly closed in a dry and well-ventilated place. Do not store near acids.

Packaging material stainless steel mild steel

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure Ensure adequate ventilation, especially in confined areas.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection rubber or plastic gloves

Eye protection face-shield safety glasses with side-shields Tightly fitting safety goggles

Skin and body protection Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. rubber or plastic apron

9. PHYSICAL AND CHEMICAL PROPERTIES

Description liquid

Colour amber

Odour musty

10. STABILITY AND REACTIVITY

Stability Stable at normal conditions

Conditions to avoid Heat, flames and sparks. Exothermic reaction with strong acids.

Materials to avoid acids oxidizing agents Incompatible with acids and bases. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products carbon monoxide carbon oxides isocyanides ammonia hydrogen cyanide (hydrocyanic acid) nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

Acute toxicity Harmful by inhalation, in contact with skin and if swallowed. Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Chronic inhalation causes tiredness, headache and rhinitis. cough

Primary irritation Irritating to respiratory system and skin. The product causes irritation of eyes, skin and mucous membranes. Causes burns.

Sensitization May cause sensitization by inhalation and skin contact. Causes sensitization.

Repeated or prolonged exposure Repeated or prolonged contact causes sensitization, asthma and eczemas.

12. ECOLOGICAL INFORMATION

Ecotoxicity Acute daphnia toxicity: EC50=1000mg/l 24H

Persistence / degradability Not inherently biodegradable.

13. DISPOSAL CONSIDERATIONS


General Information Can be incinerated, when in compliance with local regulations. Dispose of in accordance with

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local regulations

14. TRANSPORT INFORMATION**Proper shipping name** NOT CLASSIFIED AS HAZARDOUS UNDER TRANSPORT REGULATIONS**15. REGULATORY INFORMATION**

Symbol(s): Xn;


R -phrase(s) R20 - Harmful by inhalation.
 R36/37/38 - Irritating to eyes, respiratory system and skin.
 R42/43 - May cause sensitization by inhalation and skin contact.

S -phrase(s) S23 - Do not breathe gas/fumes/vapour/spray.
 S24 - Avoid contact with skin.
 S37 - Wear suitable gloves.
 S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2 R20 - Harmful by inhalation.
 R36 - Irritating to eyes.
 R37 - Irritating to respiratory system.
 R38 - Irritating to skin.
 R42 - May cause sensitization by inhalation.
 R43 - May cause sensitization by skin contact.

Other information IT SHOULD BE NOTED THAT THIS PRODUCT IS INTENDED FOR USE WITH A RESIN DESIGNATED BY ROBNOR RESINS. THE CORRESPONDING SAFETY DATA FOR THAT RESIN MUST BE STUDIED ALONG WITH THE DATA ON THIS SHEET PRIOR TO USE. USING RESINS WHICH HAVE NOT BEEN SUPPLIED AND/OR RECOMMENDED BY ROBNOR RESINS 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. No synergistic effects are known to us 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.