

SAFETY DATA SHEET

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HL116L/NC

Revision 10
Revision date 14-Aug-2009

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name HL116L/NC
Company Robnor Resins Ltd
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2 HAZARDS IDENTIFICATION.

Main hazards Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact. 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.

3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Triaryl phosphates isopropylated	40-50%	68937-41-7		Xn; R62-63 N; R51/53
Diphenylmethane diisocyanate, isomers and homologues	40-50%	9016-87-9		Xn; R20-42/43 Xi; R36/37/38

4. FIRST AID MEASURES

Skin contact Wash off immediately with plenty of soap and water. Remove contaminated clothing. 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. If breathing stops, provide artificial respiration.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

General information In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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Extinguishing media	Dry chemical. Sand. Alcohol resistant foam. Carbon dioxide (CO ₂) Do NOT use ... Water jet.
Fire hazards	highly toxic or corrosive fumes may be formed in fire conditions.
Protective equipment	Wear: Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective equipment. Evacuate personnel to a safe area. 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 allow product to enter drains. Prevent further spillage if safe. Do not flush into surface water.
Clean up methods	Absorb with inert, absorbent material. Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Do not breathe gas/fumes/vapour/spray. Do not eat, drink or smoke in areas where this product is used or stored. Open container carefully. Avoid sparks, flames, heat and sources of ignition. Ensure adequate ventilation of the working area. Wear suitable protective equipment. Take precautionary measures against static discharges.
Storage	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Do not store with acids. Store at temperatures between 15 °C and 35 °C.
Suitable packaging	Stainless steel containers. Mild steel containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure limits**

Diphenylmethane diisocyanate, isomers and homologues	WEL 8-hr limit ppm: WEL 15 min limit ppm:	WEL 8-hr limit mg/m ³ : 0.02 WEL 15 min limit mg/m ³ : 0.07
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Engineering measures	Ensure adequate ventilation of the working area.
Respiratory protection	Wear: Suitable respiratory equipment.
Hand protection	Chemical resistant gloves (plastic)
Eye protection	Face shield. Safety glasses. Approved safety goggles.
Protective equipment	Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing. Wash all contaminated clothing before reuse. Apron (Plastic or rubber)

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Colour	Clear.
Odour	Slight.
Flash point	200°C
Vapour pressure	0.000004 (MDI) at 20°C
Relative density	1.21
Autoignition temperature	585

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Stability	Stable under normal conditions.
Conditions to avoid	Heat, sparks and open flames. Contact with strong acids will produce an exothermic reaction.
Materials to avoid	Acids. Oxidising agents. Bases.
Hazardous decomposition products	Carbon oxides. Isocyanides. Ammonia. Hydrogen cyanide. Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Harmful by inhalation, in contact with skin and if swallowed. Asthma sufferers should not work with isocyanates. May cause dizziness and headache.
Corrosivity	Irritating to respiratory system and skin. May cause irritation to skin, eyes and mucous membranes.
Sensitization	May cause sensitisation by inhalation and skin contact.
Repeated or prolonged exposure	Repeated or prolonged exposure may cause asthma and eczema.
Reproductive toxicity	Possible risk of harm to the unborn child. Possible risk of impaired fertility.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Acute daphnia toxicity: EC50=1000mg/l 24H. May cause long-term adverse effects in the aquatic environment.
Degradability	Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

General information	Can be incinerated if in compliance with local and national regulations. 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
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, (triaryl phosphates isopropylated and triphenyl phosphate).	

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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Xn - Harmful; N - Dangerous for the environment

**Risk phrases**

R20 - Harmful by inhalation.

R36/37/38 - Irritating to eyes, respiratory system and skin.

R42/43 - May cause sensitisation by inhalation and skin contact.

R51/53 - 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

S22 - Do not breathe dust.

S23 - Do not breathe gas/fumes/vapour/spray.

S24 - Avoid contact with skin.

S29 - Do not empty into drains.

S37 - Wear suitable gloves.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

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16. OTHER INFORMATION

Text of risk phrases in Section 3.

R20 - Harmful by inhalation.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R42/43 - May cause sensitisation by inhalation and skin contact.
R51/53 - 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.

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:
7 - storage.