



SAFETY DATA SHEET

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HL116H/NC

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name HL116H/NC
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components DIPHENYLMETHANEDIISOCYANATE, ISOMERS & HOMOLOGUES 90-100%
CAS: 009016-87-9
Xn; R20 Xi; R36 Xi; R37 Xi; R38 Xn; R42 Xi; R43

3. HAZARDS IDENTIFICATION

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

4. FIRST AID MEASURES

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

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.

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.

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.

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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.

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

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)	Name	STD	TWA (ppm)	TWA (mgm3)	STEL (ppm)	STEL (mgm3)
	DIPHENYLMETHANEDIISOCYANATE, ISOMERS & HOMOLOGUES			0.02		0.08
Engineering measures to reduce exposure	Ensure adequate ventilation, especially in confined areas.					
Respiratory protection	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
Odour	slight
Colour	amber

10. STABILITY AND REACTIVITY

Stability	Stable at normal conditions
Conditions to avoid	Heat, flames and sparks.
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 (NOx)

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.

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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

Persistence / degradability Not inherently biodegradable.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION**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.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R42/43 - May cause sensitization by inhalation and skin contact.

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User notes: 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.

Disclaimer: WARNING:

The above information is provided by us in good faith but since we do not know the use to which our products may be put we cannot accept any liability for reliance placed on this sheet. We are always prepared to respond to enquiries regarding our products. Our responsibilities to our customers are only set out in our terms and conditions.