

SAFETY DATA SHEET

Page 1 of 3

RL171C/BK

Revision 5

Revision date 31-Jan-2008

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name RL171C/BK

Company Robnor Resins Ltd

Hunts Rise

South Marston Park

Swindon Wiltshire SN3 4TE

support@robnor.co.uk www.robnor.co.uk

Telephone +44 (0)1793 823741 +44 (0)1793 827033 Fax +44 07831 130543 **Emergency telephone**

number

2 HAZARDS IDENTIFICATION.

Main hazards No Significant Hazard

3. COMPOSITION / INFORMATION ON INGREDIENTS.

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. Seek

medical attention if irritation or symptoms persist.

Inhalation Move the exposed person to fresh air. Seek medical attention.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Drink 1

to 2 glasses of water. Ingest 300ml of activated charcoal. DO NOT INDUCE

VOMITING. Never give anything by mouth to an unconscious person.

General information If you feel unwell, seek medical advice (show the label where possible).

5. FIRE FIGHTING MEASURES

Extinguishing media Carbon dioxide (CO2) Foam. Dry chemical. Water spray. Fire hazards Burning produces irritating, toxic and obnoxious fumes.

Protective equipment Wear: Self-contained breathing apparatus.

RL171C/BK

Revision 5 Revision date 31-Jan-2008

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear suitable protective equipment. Eliminate all sources of ignition. Keep personnel

away from spill. Evacuate personnel to a safe area. Ensure adequate ventilation of the

working area.

Environmental precautions Do not let product contaminate subsoil. Do not allow product to enter drains.

Clean up methods Remove mechanically; cover the remainder with wet, absorbent material (e.g. sawdust,

chemical binder based on calcium silicate hydrate, sand). After approximately one hour

transfer to waste container and do not seal (evolution of CO2!).

7. HANDLING AND STORAGE

Handling Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Do

not eat, drink or smoke in areas where this product is used or stored.

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Do not store Storage

with food, fedstuffs, fertilizers and other sensitive materials..

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures Ensure adequate ventilation of the working area.

Occupational exposure

Keep away from food, drink and animal feedingstuffs.

controls

Respiratory protection Wear suitable respiratory equipment when necessary. Suitable half mask respirator with

filter P3 (EN 143)

Hand protection Rubber gloves. Chemical resistant gloves (PVC)

Eye protection Face shield. Approved safety goggles.

Protective equipment Avoid contact with eyes and skin. Wash all contaminated clothing before reuse. Wear

suitable protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description Liquid. Colour Black. Odour Slight. **Boiling point** 300°C 300°C Flash point Relative density 1.73

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions. Conditions to avoid Heat, sparks and open flames.

Materials to avoid Amines.

Hazardous decomposition

Carbon oxides. Nitrogen oxides. Isocyanides. Hydrogen cyanide.

products

11. TOXICOLOGICAL INFORMATION

Sensitization May cause sensitisation by skin contact. Repeated or prolonged Avoid prolonged or repeated exposure.

exposure

12. ECOLOGICAL INFORMATION

Ecotoxicity No data is available on this product.

5

RL171C/BK

Revision

Revision date

31-Jan-2008

13. DISPOSAL CONSIDERATIONS

General information

Can be incinerated if in compliance with local and national regulations.

14. TRANSPORT INFORMATION

Further information

The product is not classifed as dangerous for carriage.

15. REGULATORY INFORMATION

Risk phrases

NSH - No Significant Hazard.

16. OTHER INFORMATION

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.

This document differs from the previous version in the following areas:

- 11 sensitization.
- 11 repeated or prolonged exposure.
- 12 ecotoxicity.

Revision



SAFETY DATA SHEET

Page 1 of 4

HL171C/NC

Revision 4

Revision date 28-Nov-2005

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name HL171C/NC

Company Robnor Resins Ltd

Hunts Rise

South Marston Park

Swindon Wiltshire SN3 4TE

support@robnor.co.uk www.robnor.co.uk

Telephone +44 (0)1793 823741

Fax +44 (0)1793 827033

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number

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

Conc. CAS EINECS Symbols/Risk phrases

Diphenylmethane diisocyanate, isomers and 20 - 30% 9016-87-9 Xn;R20 Xi;R36 Xi;R37 Xi;R38

homologues Xn;R42 Xi;R43

3. HAZARDS IDENTIFICATION

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

sensitisation by inhalation and skin contact.

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.

In 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).

5. FIRE FIGHTING MEASURES

Extinguishing media Dry chemical. Sand. Alcohol resistant foam. Carbon dioxide (CO2)

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.

HL171C/NC

Revision 4
Revision date 28-Nov-2005

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 Store at temperatures between 15 °C and 25 °C. Keep in a cool, dry, well ventilated

area. Keep containers tightly closed. Do not store with acids.

Suitable packaging Stainless steel containers. Mild steel containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Diphenylmethane diisocyanate, isomers and WEL 8-hr limit ppm: WEL 8-hr limit mg/m3: 0.02 homologues WEL 15 min limit ppm: WEL 15 min limit mg/m3: 0.07

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

DescriptionLiquid.ColourBrown.

Odour Characteristic.

Flash point 200°C

Vapour pressure 0.000004(MDI) at 20°C mm Hg

Relative density 1.24

10. STABILITY AND REACTIVITY

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.

HL171C/NC

Revision 4 Revision date 28-Nov-2005

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. Causes burns.

Sensitization May cause sensitisation by inhalation and skin contact.

Repeated or prolonged

exposure

Repeated or prolonged exposure may cause asthma and ezcema.

12. ECOLOGICAL INFORMATION

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

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.

14. TRANSPORT INFORMATION

Further information The product is not classifed as dangerous for carriage.

15. REGULATORY INFORMATION

Symbols Xn - Harmful



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.

Safety phrases S22 - Do not breathe dust.

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

S24 - Avoid contact with skin. 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.

HL171C/NC

Revision 4
Revision date 28-Nov-2005

16. OTHER INFORMATION

Text of risk phrases in Section 2

R20 - Harmful by inhalation.

R36 - Irritating to eyes.

R37 - Irritating to respiratory system.

R38 - Irritating to skin.

R42 - May cause sensitisation by inhalation. R43 - May cause sensitisation by skin contact.

General 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.

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**Provision of facilities for washing, storage of clothing and skin care and promotion of their use.

**Close supervision to identify failure in the perfomance of process controls or in following operating instructions, the occurence 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.

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It is a statutory requirement that Medical Supervision is carried out when using products which can cause an identifiable disease, there is reasonable liklihood 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 compliled 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.

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