

HL171C/NC

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Compilation date: 03/04/2012

Revision date: 26/02/2018

Revision No: 1.1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: HL171C/NC

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC1: Adhesives, sealants.

1.3. Details of the supplier of the safety data sheet

Company name: Robnor ResinLab Ltd

31 Athena Avenue Elgin Industrial Estate

Swindon Wiltshire SN2 8EJ

United Kingdom

Tel: +44(0) 1793 823741

Fax: +44(0) 1793 827033

Email: eusds@robnor.co.uk

1.4. Emergency telephone number

Emergency tel: +44(0) 1793 823741

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Sens. 1:

H317; Carc. 2: H351; STOT RE 2: H373; STOT SE 3: H335; -: EUH204

Most important adverse effects: Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause

allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May cause an allergic skin reaction. May cause respiratory irritation. May cause

damage to organs [lungs] through prolonged or repeated exposure [inhalation

(dust/mist)]. Contains isocyanates. May produce an allergic reaction.

2.2. Label elements

Label elements:

Hazard statements: H332: Harmful if inhaled.

H315: Causes skin irritation.

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H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351: Suspected of causing cancer.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H373: May cause damage to organs [lungs] through prolonged or repeated exposure

[inhalation (dust/mist)].

EUH204: Contains isocyanates. May produce an allergic reaction.

Hazard pictograms: GHS08: Health hazard

GHS07: Exclamation mark





Signal words: Danger

Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P301+312: IF SWALLOWED: Call a doctor if you feel unwell.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with plenty of water/soap and water.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest

in a position comfortable for breathing.

P308+313: IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

DIPHENYLMETHANEDIISOCYANATE (ISOMERS & HOMOLOGUES)

EINECS	CAS	PBT / WEL	CLP Classification	Percent
618-498-9	9016-87-9	-	Carc. 2: H351; Acute Tox. 4: H332; Skin	50-70%
			Irrit. 2: H315; STOT RE 2: H373; Eye Irrit.	
			2: H319; STOT SE 3: H335; Resp. Sens. 1:	
			H334; Skin Sens. 1: H317; -: EUH204	

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4,4'-METHYLENEDIPHENYL DIISOCYANATE - REACH registered number(s): 01-2119457014-47-XXXX

202-966-0	101-68-8	-	Carc. 2: H351; STOT RE 2: H373; Acute	30-50%
			Tox. 4: H332; Skin Irrit. 2: H315; Eye Irrit.	
			2: H319; STOT SE 3: H335; Resp. Sens. 1:	
			H334; Skin Sens. 1: H317	

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.Ingestion: Do not induce vomiting. Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious,

ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If breathing becomes bubbly, have the casualty sit and provide oxygen

if available. Transfer to hospital as soon as possible.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be irritation of the throat. There may be shortness of breath due to

congestion of the lungs.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs

causing severe shortness of breath.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Alcohol resistant

foam. Dry chemical powder. Carbon dioxide. Do not use water.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

Section 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised

personnel. Do not attempt to take action without suitable protective clothing - see

section 8 of SDS.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes

or gas. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific

substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage

container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in

the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): PC1: Adhesives, sealants.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

DIPHENYLMETHANEDIISOCYANATE (ISOMERS & HOMOLOGUES)

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.02 mg/m3	0.07 mg/m3	-	-

4.4'-METHYLENEDIPHENYL DIISOCYANATE

UK	0.02 mg/m2	0.07 mg/m2		
l UK	0.02 mg/m3	0.07 mg/m3	-	-

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DNEL/PNEC Values

Hazardous ingredients:

4,4'-METHYLENEDIPHENYL DIISOCYANATE

Туре	Exposure	Value	Population	Effect
DNEL	Inhalation	50 ug/m3	Workers	Local
DNEL	Inhalation	100 ug/m3	Workers	Local
PNEC	Fresh water	1 mg/L	-	-
PNEC	Marine water	100 ug/L	-	-
PNEC	Microorganisms in sewage treatment	1 mg/L	-	-
PNEC	Soil (agricultural)	1 mg/kg	-	-

8.2. Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be used in handling.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Pale brown

Solubility in water: Insoluble

Boiling point/range°C: 245 Flash point°C: 230

Relative density: 1.23

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below. Water

reactive: will react with water or moisture to produce heat and flammable/toxic gases.

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10.4. Conditions to avoid

Conditions to avoid: Heat, Moist air.

10.5. Incompatible materials

Materials to avoid: Water. Alcohols. Amines. Strong oxidising agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RBT	LD50	>9400	mg/kg
DUST/MIST	RAT	4H LC50	310	mg/l
ORAL	RAT	LD50	>10000	mg/kg

Hazardous ingredients:

DIPHENYLMETHANEDIISOCYANATE (ISOMERS & HOMOLOGUES)

DERMAL	RBT	LD50	>9400	mg/kg
DUST/MIST	RAT	4H LC50	0.49	mg/l
ORAL	RAT	LD50	>10000	mg/kg

4,4'-METHYLENEDIPHENYL DIISOCYANATE

DUST/MIST	RAT	4H LC50	0.368	mg/l
ORL	RAT	LD50	9200	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	INH DRM	Hazardous: calculated
Carcinogenicity		Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

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Ingestion: There may be irritation of the throat. There may be shortness of breath due to

congestion of the lungs.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs

causing severe shortness of breath.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

DIPHENYLMETHANEDIISOCYANATE (ISOMERS & HOMOLOGUES)

Daphnia magna	48H EC50	>1640	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	>1000	mg/l

4,4'-METHYLENEDIPHENYL DIISOCYANATE

Scenedesmus Subspicatus	72H ErC50	>1640	mg/l
ZEBRAFISH (Brachydanio rerio)	96H ErC50	>1000	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Slightly bioaccumulable.

12.4. Mobility in soil

Mobility: Reacts with water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal

company.

Waste code number: 08 05 01

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

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Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH204: Contains isocyanates. May produce an allergic reaction.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven

that no other routes of exposure cause the hazard>.

H373: May cause damage to organs <or state all organs affected, if known> through

prolonged or repeated exposure <state route of exposure if it is conclusively proven that

no other routes of exposure cause the hazard>.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any

damage resulting from handling or from contact with the above product.



RL171C/BK

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Compilation date: 03/04/2012

Revision date: 26/02/2018

Revision No: 2.1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: RL171C/BK

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC1: Adhesives, sealants.

1.3. Details of the supplier of the safety data sheet

Company name: Robnor ResinLab Ltd

31 Athena Avenue

Elgin Industrial Estate

Swindon Wiltshire

SN2 8EJ

United Kingdom

Tel: +44(0) 1793 823741

Fax: +44(0) 1793 827033

Email: eusds@robnor.co.uk

1.4. Emergency telephone number

Emergency tel: +44(0) 1793 823741

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: This product has no classification under CLP.

2.2. Label elements

Label elements: This product has no label elements.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous ingredients:

LIMESTONE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
215-279-3	1317-65-3	Substance with a Community workplace exposure limit.	-	30-50%
ALUMINIUM HY	YDROXIDE			
244-492-7	21645-51-2	Substance with a Community workplace exposure limit.	-	10-30%
KAOLIN				
310-194-1	1332-58-7	Substance with a Community	-	1-10%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.Eye contact: Bathe the eye with running water for 15 minutes.Ingestion: Wash out mouth with water. Consult a doctor.

workplace exposure limit.

Inhalation: Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated

area with signs and prevent access to unauthorised personnel.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for

disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Not applicable.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): PC1: Adhesives, sealants.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

LIMESTONE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	10 mg/m3	4 mg/m3	-	-

ALUMINIUM HYDROXIDE

UK	4 mg/m3	10 mg/m3	-	-

KAOLIN

UK 2 mg/m3 - -	UK	2 mg/m3	-	-	-
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DNEL/PNEC Values

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Hazardous ingredients:

LIMESTONE

Туре	Exposure	Value	Population	Effect
DNEL	Inhalation	10 mg/m3	Workers	Systemic

ALUMINIUM HYDROXIDE

Туре	Exposure	Value	Population	Effect
DNEL	Inhalation	10.76 mg/m3	Workers	Systemic
DNEL	Inhalation	3.59 mg/m3	Workers	Local

8.2. Exposure controls

Engineering measures: Not applicable.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid Colour: Black

Viscosity: Highly viscous

Relative density: 1.72

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong bases.

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10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

LIMESTONE

DERMAL	RAT	LD50	>2000	mg/kg
DUST/MIST	RAT	4H LC50	>3	mg/l
ORAL	RAT	LD50	>2000	mg/kg

ALUMINIUM HYDROXIDE

ORAL	RAT	LD50	>2000	ma/ka
OICAL	IVVI	LDJU	/2000	mg/kg

KAOLIN

DERMAL	RAT	LD50	>5000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

LIMESTONE

Daphnia magna	48H EC50	>100	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	>100	mg/l
Scenedesmus Subspicatus	72H ErC50	>14	mg/l

ALUMINIUM HYDROXIDE

Daphnia magna	48H EC50	>100	mg/l
FISH	96H LC50	>100	mg/l

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GREEN ALGA (Selenastrum capricornutum) 72H ErC50 >100 mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Non-volatile.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal

company.

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

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damage resulting from handling or from contact with the above product.