

HL227CL/NC

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Compilation date: 31/05/2012

Revision date: 13/09/2018

Revision No: 1.2

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

#### 1.1. Product identifier

Product name: HL227CL/NC

Synonyms: EHC: 28611000000847

## 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

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. May cause an allergic

skin reaction. Suspected of causing cancer ([inhalation]). May cause respiratory irritation. May cause damage to organs ([lungs]) through prolonged or repeated

exposure ([inhalation (dust/mist)]).

#### 2.2. Label elements

Label elements:

Hazard statements: H332: Harmful if inhaled.

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H315: Causes skin irritation.

H319: Causes serious eye irritation.

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

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer ([inhalation]).

H335: May cause respiratory irritation.

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

([inhalation (dust/mist)]).

Hazard pictograms: GHS08: Health hazard

GHS07: Exclamation mark





Signal words: Danger

Precautionary statements: P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe vapours.

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

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P302+P352: IF ON SKIN: Wash with plenty of water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

P308+P313: IF exposed or concerned: Get medical advice/attention.

## 2.3. Other hazards

Other hazards: Danger of serious damage to health by prolonged exposure.

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	10-30%
			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	10-30%
			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. If irritation occurs or persists, seek

medical attention. Transfer to hospital if necessary.

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 unconscious, check for breathing and apply artificial respiration if

necessary. Transfer to hospital as soon as possible.

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

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

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

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath. Exposure may

cause coughing or wheezing. Potential potent asthmagen.

### 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. Eye bathing equipment should

be available on the premises.

### 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.

### Section 6: Accidental release measures

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### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

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. Clean-up should be dealt with only by qualified

personnel familiar with the specific substance.

#### 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 direct contact with the substance.

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/m3	0.07 mg/m3	=	=

### **DNEL/PNEC Values**

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### 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 available in case of emergency.

Hand protection: Impermeable gloves.

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

Skin protection: Impermeable protective clothing.

### Section 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Various

Odour: Characteristic odour

Solubility in water: Reacts with water.

Viscosity: Non-viscous

Flash point°C: 230 Relative density: 1.045

### 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.

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### 10.4. Conditions to avoid

Conditions to avoid: Heat.

### 10.5. Incompatible materials

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

## 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:

## 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
ORAL	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 irritation and redness at the site of contact.

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

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath. Exposure may

cause coughing or wheezing. Potential potent asthmagen.

## Section 12: Ecological information

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### 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: No bioaccumulation potential.

## 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.

# 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.

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### 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 ([inhalation]).

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

([inhalation (dust/mist)]).

H373: May cause damage to organs ([respiratory system]) through prolonged or repeated

exposure ([inhalation (dust/mist)]).

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.



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Compilation date: 31/05/2012

Revision date: 13/04/2016

Revision No: 1.1

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

#### 1.1. Product identifier

Product name: RL227CL/NC

Synonyms: EHC: 28611000000846

## 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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#### 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. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.

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

# 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.

### 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.

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## 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): No data available.

### Section 8: Exposure controls/personal protection

## 8.1. Control parameters

Workplace exposure limits: No data available.

#### **DNEL/PNEC Values**

DNEL / PNEC No data available.

### 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: Various

Viscosity: Highly viscous

Relative density: 1.565

### 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.

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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.

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: 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

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

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.

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Waste code number: 08 04 10

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

2015/830.

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

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.