

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name: HL110H/NC

Synonyms: EHC: 2861100000647

**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](mailto: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.

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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.

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+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

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

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P341: IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308+P313: 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 Irrit. 2: H315; STOT RE 2: H373; Eye Irrit. 2: H319; STOT SE 3: H335; Resp. Sens. 1: H334; Skin Sens. 1: H317; -: EUH204	50-70%

[cont...]

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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 Tox. 4: H332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; Resp. Sens. 1: H334; Skin Sens. 1: H317	30-50%
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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. 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	8 hour TWA	15 min. STEL
UK	0.02 mg/m <sup>3</sup>	0.07 mg/m <sup>3</sup>	-	-

4,4'-METHYLENEDIPHENYL DIISOCYANATE

UK	0.02 mg/m <sup>3</sup>	0.07 mg/m <sup>3</sup>	-	-
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## DNEL/PNEC Values

Hazardous ingredients:

4,4'-METHYLENEDIPHENYL DIISOCYANATE

Type	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.

[cont...]

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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
ORAL	RAT	LD50	>10000	mg/kg
DERMAL	RBT	LD50	>9400	mg/kg
DUST/MIST	RAT	4H LC50	310	mg/l

## Hazardous ingredients:

## DIPHENYLMETHANEDIISOCYANATE (ISOMERS &amp; 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.

[cont...]

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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.

[cont...]

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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 ([inhalation]).

H351: Suspected of causing cancer.

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.



**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name: RL110H ALL COLOURS

Synonyms: EHC: 2861100000651

**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](mailto: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: Eye Dam. 1: H318

Most important adverse effects: Causes serious eye damage.

**2.2. Label elements**

Label elements:

Hazard statements: H318: Causes serious eye damage.

Hazard pictograms: GHS05: Corrosion



Signal words: Danger

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

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P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical 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:

2-ETHYLHEXANE-1,3-DIOL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
202-377-9	94-96-2	-	Eye Dam. 1: H318	10-30%

ZEOLITES

215-283-8	1318-02-1	Substance with a Community workplace exposure limit.	-	1-10%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

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

### 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 pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

[cont...]

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**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: 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. 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: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

**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**

[cont...]

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Hazardous ingredients:

ZEOLITES

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	10 mg/m <sup>3</sup>	4 mg/m <sup>3</sup>	-	-

**DNEL/PNEC Values**

Hazardous ingredients:

2-ETHYLHEXANE-1,3-DIOL

Type	Exposure	Value	Population	Effect
DNEL	Dermal	76.3 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Dermal	228.9 mg/m <sup>3</sup>	Workers	Systemic
PNEC	Fresh water	100 ug/L	-	-
PNEC	Marine water	10 ug/L	-	-
PNEC	Microorganisms in sewage treatment	3 mg/L	-	-
PNEC	Fresh water sediments	1.6 mg/kg	-	-
PNEC	Marine sediments	160 ug/kg	-	-
PNEC	Soil (agricultural)	170 ug/kg	-	-
PNEC	Food chain	3.3 mg/kg	-	-

**8.2. Exposure controls**

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

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Tightly fitting safety goggles. 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

Flash point°C: >150

Relative density: Not applicable.

**9.2. Other information**

Other information: No data available.

**Section 10: Stability and reactivity**

[cont...]

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**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. Alkali metals.

**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:

2-ETHYLHEXANE-1,3-DIOL

DERMAL	RBT	LD50	2000	mg/kg
ORAL	RAT	LD50	1400	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated

**Symptoms / routes of exposure**

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

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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

**Section 12: Ecological information**

**12.1. Toxicity**

[cont...]

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Hazardous ingredients:

2-ETHYLHEXANE-1,3-DIOL

CHANNEL CATFISH ( <i>Ictalurus punctatus</i> )	96H LC50	624	mg/l
<i>Daphnia magna</i>	48H EC50	>100	mg/l
<i>Scenedesmus Subspicatus</i>	72H ErC50	>100	mg/l

ZEOLITES

<i>Daphnia magna</i>	48H EC50	>1400	mg/l
FISH	96H LC50	>680	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable in part only.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

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 04 09

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.

[cont...]

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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: H318: Causes serious eye damage.

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.