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Compilation date: 03/01/2013

Revision No: 1

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

## 1.1. Product identifier

Product name: RP304TC/NC

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

## 1.3. Details of the supplier of the safety data sheet

Company name: Robnor Resins Ltd

**Hunts Rise** 

South Marston Park

Swindon Wiltshire SN3 4TE

United Kingdom
Tel: +44(0)1793 823741
Fax: +44(0)1793 827033

Email: support@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 CHIP: -: R52/53

Classification under CLP: Aquatic Chronic 3: H412

Most important adverse effects: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

#### 2.2. Label elements

Label elements under CLP:

Hazard statements: H412: Harmful to aquatic life with long lasting effects.

Precautionary statements: P273: Avoid release to the environment.

Label elements under CHIP:

Hazard symbols: Symbol not required.

Risk phrases: R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

## 2.3. Other hazards

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

## Section 3: Composition/information on ingredients

## 3.2. Mixtures

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#### Hazardous ingredients:

2-PROPENOIC ACID, 2-[METHYL[(1,1,2,2,3,3,4,4,4-NONAFLUOROBUTYL)SULFONYL]AMINO]ETHYL ESTER, TELOMER WITH 3-MERCAPTO-1,2-PROPANEDIOL, POLYMER WITH 2-METHYLOXIRANE POLYMER WITH OXIRANE DI-2-PROPENOATE, AND 2-METHYLOXIRANE POLYMER WITH OXIRANE MONO-2-PRO

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	1017237-78- 3	N: R51/53	Aquatic Chronic 2: H411	1-10%

#### TETRAMETHYL BIS(AMINOETHYL) ETHER

				1
_	3033-62-3	Xn: R22: T: R23/24: C: R35	-	<1%

#### 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.

Inhalation: Move to fresh air in case of accidental inhalation of vapours.

### 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.

#### 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. Turn leaking containers

leak-side up to prevent the escape of liquid. 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.

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#### 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

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in 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.

#### 8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

#### 8.2. Exposure controls

Engineering measures: The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses.

Skin protection: Protective clothing.

## Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State: Liquid Relative density: 1.03

#### 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.

#### 10.4. Conditions to avoid

Conditions to avoid: Heat.

#### 10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

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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

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 data available.

#### 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 substance.

## 12.6. Other adverse effects

Other adverse effects: Harmful to aquatic organisms. Harmful to soil organisms.

## Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and 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

## 15.2. Chemical Safety Assessment

## Section 16: Other information

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## Other information

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

453/2010.

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

Phrases used in s.2 and 3: H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

R22: Harmful if swallowed.

R23/24: Toxic by inhalation and in contact with skin.

R35: Causes severe burns.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

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

## 1.1. Product identifier

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

## 1.3. Details of the supplier of the safety data sheet

Company name: Robnor Resins Ltd

**Hunts Rise** 

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Swindon Wiltshire SN3 4TE

United Kingdom
Tel: +44(0)1793 823741

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Email: support@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 CHIP: Xn: R20; Xi: R36/37/38; Xn: R40; Sens.: R42/43; Xn: R48/20

Classification under CLP: Eye Irrit. 2: H319; Acute Tox. 4: H332; Carc. 2: H351; Resp. Sens. 1: H334; Skin Irrit.

2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 2: H371

Most important adverse effects: Harmful by inhalation. Irritating to eyes, respiratory system and skin. Limited evidence

of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Harmful:

danger of serious damage to health by prolonged exposure through inhalation.

## 2.2. Label elements

#### Label elements under CLP:

Hazard statements: 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.

H351: Suspected of causing cancer. H371: May cause damage to organs .

H373: May cause damage to organs through prolonged or repeated exposure.

Signal words: Danger

Hazard pictograms: GHS07: Exclamation mark

GHS08: Health hazard





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Precautionary statements: P260: Do not breathe.

P280: Wear.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

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

rest in a position comfortable for breathing.

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

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

P308+313: IF exposed or concerned: Get medical.

Label elements under CHIP:

Hazard symbols: Harmful.



Risk phrases: R20: Harmful by inhalation.

R36/37/38: Irritating to eyes, respiratory system and skin.

R40: Limited evidence of a carcinogenic effect.

R42/43: May cause sensitisation by inhalation and skin contact.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through

inhalation.

Safety phrases: S2: Keep out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show

the label where possible).

## 2.3. Other hazards

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

## Section 3: Composition/information on ingredients

#### 3.2. Mixtures

## Hazardous ingredients:

## DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

<b>D</b>	DIT TENTEMENT WITE DIGGOTTANTE (TOOMERO TAND TOMOEGOGES)					
	EINECS	CAS	CHIP Classification	CLP Classification	Percent	
-		9016-87-9	Xn: R20; Xi: R36/37/38; Xn: R40; Sens.: R42/43; Xn: R48/20	Carc. 2: H351; Acute Tox. 4: H332; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317; STOT SE 2: H371; STOT RE 2: H373	>90%	

## 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: If conscious, give half a litre of water to drink immediately. Wash out mouth with

water. Do not induce vomiting. Consult a doctor.

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

doctor.

## 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 irritation of the throat with a feeling of tightness in the chest. Exposure

may cause coughing or wheezing.

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: Eye bathing equipment should be available on the premises.

#### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

Extinguishing media: Alcohol resistant foam. Carbon dioxide. Dry chemical powder. 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

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

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach

from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Turn leaking containers leak-side up to prevent the escape of liquid.

## 6.2. Environmental precautions

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

neighbourhood to the presence of fumes or gas.

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

area. Do not handle in a confined space. Avoid the formation or spread of mists in the

air.

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## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with

water or humidity.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

## Section 8: Exposure controls/personal protection

## 8.1. Control parameters

#### Hazardous ingredients:

#### DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND 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	_	-

#### 8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

## 8.2. Exposure controls

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

mentioned in section 7 of SDS are in place.

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

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: Brown

Odour: Characteristic odour

Solubility in water: Reacts with water.

Boiling point/range°C: 330 Flash point°C: >200

Relative density: 1.24

#### 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.

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#### 10.4. Conditions to avoid

Conditions to avoid: Heat. Humidity. Direct sunlight.

#### 10.5. Incompatible materials

Materials to avoid: Water. 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

## Hazardous ingredients:

#### DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

ORL	RAT	LD50	49	gm/kg
SKN	RBT	LD50	>9400	mg/kg

#### Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	INH	Hazardous: calculated
Irritation	OPT INH DRM	Hazardous: calculated
Sensitisation	INH DRM	Hazardous: calculated
Repeated dose toxicity	INH	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 irritation of the throat with a feeling of tightness in the chest. Exposure

may cause coughing or wheezing.

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

Other information: Not applicable.

## 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: Absorbed only slowly into soil.

## 12.5. Results of PBT and vPvB assessment

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

## 12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

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## Section 13: Disposal considerations

#### 13.1. Waste treatment methods

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

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

## 15.2. Chemical Safety Assessment

#### Section 16: Other information

#### Other information

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

453/2010.

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

Phrases used in s.2 and 3: 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>.

H371: May cause damage to organs <or state all organs affected, if known> <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>.

R20: Harmful by inhalation.

R36/37/38: Irritating to eyes, respiratory system and skin.

R40: Limited evidence of a carcinogenic effect.

R42/43: May cause sensitisation by inhalation and skin contact.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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.