



## SAFETY DATA SHEET

RIZISTAL EC240 - HARDENER

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Compilation date: 14/08/2015

Revision date: 16/05/2017

Revision No: 3

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

#### 1.1. Product identifier

**Product name:** RIZISTAL EC240 - HARDENER

#### 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:** John L Lord & Son Ltd.

Ainsworth Road

Bury

Lancashire

BL8 2RS

United Kingdom

**Tel:** +44 (0)161 764 4617

**Fax:** +44 (0)161 763 1873

**Email:** [derrickhulett@john-lord.co.uk](mailto:derrickhulett@john-lord.co.uk)

#### 1.4. Emergency telephone number

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CLP:** Repr. 2: H361; Skin Corr. 1B: H314; Aquatic Chronic 2: H411; Acute Tox. 4: H302; Skin

Sens. 1: H317; STOT SE 3: H335

**Most important adverse effects:** Suspected of damaging fertility or the unborn child . Causes severe skin burns and eye damage. Toxic to aquatic life with long lasting effects. Harmful if swallowed. May cause an allergic skin reaction. May cause respiratory irritation.

[cont...]

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## 2.2. Label elements

### Label elements:

**Hazard statements:** H361: Suspected of damaging fertility or the unborn child .

H314: Causes severe skin burns and eye damage.

H411: Toxic to aquatic life with long lasting effects.

H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

**Hazard pictograms:** GHS05: Corrosion

GHS08: Health hazard

GHS07: Exclamation mark

GHS09: Environmental



**Signal words:** Danger

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

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

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

P310: Immediately call a POISON CENTER/doctor.

P405: Store locked up.

P501: Dispose of contents/container to in accordance with local/regional/national/international regulations.

## 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

[cont...]

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## 3.2. Mixtures

### Hazardous ingredients:

#### 4-TERT-BUTYLPHENOL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
202-679-0	98-54-4	-	Repr. 2: H361f; Skin Irrit. 2: H315; Eye Dam. 1: H318	30-50%

#### TRIMETHYLHEXANE-1,6-DIAMINE

247-063-2	25513-64-8	-	Acute Tox. 4: H312; Skin Sens. 1A: H317; Aquatic Chronic 3: H412; Skin Corr. 1C: H314; Acute Tox. 4: H302	10-30%
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#### PARAFORMALDEHYDE OLIGOMERIC REACTION PRODUCTS WITH 4-TERT-BUTYLPHENOL

500-618-5	161278-27-9	-	Acute Tox. 4: H332; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1A: H317; Aquatic Chronic 3: H412	10-30%
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#### PHENOL STYRENATED

262-975-0	61788-44-1	-	Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1: H317	1-10%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

**Eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**Ingestion:** Drink copious amounts of water and provide fresh air. Instantly call for a doctor.

**Inhalation:** Supply fresh air; consult doctor in case of complaints.

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

**Skin contact:** Caustic effect on the skin and mucous membranes. Sensitisation possible through skin contact.

**Eye contact:** Strong caustic effect

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

**Inhalation:** Exposure may cause coughing or wheezing.

[cont...]

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

**Immediate / special treatment:** Instantly remove any clothing soiled by the product

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** CO<sub>2</sub>, Extinguishing Powder or Water Jet. Fight larger fires with water jet or alcohol resistant foam. For safety reasons unsuitable extinguishing agents Water with a full water jet.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Formation of toxic gases is possible during heating or in case of fire.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Put on breathing apparatus. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## Section 6: Accidental release measures

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

**Personal precautions:** Wear protective clothing

### 6.2. Environmental precautions

**Environmental precautions:** Do not allow product to reach sewage system or water body. Do not allow the product to enter the ground / soil.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 13 of SDS. Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** The usual precautionary measures for handling chemicals must be observed. Ensure good ventilation/exhaustion at the workplace.

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

**Storage conditions:** Store only in original container. Provide floor trough without outlet. Store away from foodstuffs. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

## 7.3. Specific end use(s)

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** No data available.

### DNEL/PNEC Values

#### RIZISTAL EC240 - HARDENER

Type	Exposure	Value	Population	Effect
DNEL	Dermal (98-54-4 4-tert-butylphenol)	0.071 mg/kg	Workers	Long term exposure
DNEL	Inhalative (98-54-4 4-tert-butylphenol)	0.5 mg/kg	Workers	Long term exposure
PNEC	Fresh water (98-54-4 4-tert-butylphenol)	0.01 mg/l	-	-
PNEC	Marine water (98-54-4 4-tert-butylphenol)	0.001 mg/l	-	-
PNEC	Fresh water (25513-64-8 trimethylhexane-1,6-diamine)	0.0295 mg/l	-	-
PNEC	Marine water (25513-64-8 trimethylhexane-1,6-diamine)	0.00295 mg/l	-	-

### 8.2. Exposure controls

**Engineering measures:** Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing

**Respiratory protection:** Use breathing protection in case of insufficient ventilation.

**Hand protection:** Wash hands before work breaks and after finishing work. Only use chemical-protective gloves with CE-labelling of category III. To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required. Check the permeability prior to

[cont...]

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each renewed use of the glove. Preventive skin protection by use of skin-protecting agents is recommended.

**Eye protection:** Avoid contact with eyes. Tightly sealed safety glasses.

**Skin protection:** Avoid all skin contact. Protective clothing.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Yellowish

**Odour:** Amine-like

**Solubility in water:** Not miscible

**Kinematic viscosity:** 125 s

**Boiling point/range°C:** > 200 °C

**Melting point/range°C:** No Data

**Flash point°C:** > 100 °C

**Autoflammability°C:** N/A

**Relative density:** 1.01 g/cm<sup>3</sup> (ISO 2811)

### 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** No dangerous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid:** No further relevant information available.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** No hazardous decomposition products if stored and handled as prescribed/indicated In the event of fire; toxic gases and vapours

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## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	>2000 98-54-4 4-tert	mg/kg
Inhalative	OECD- 403	4H LC50	> 5.6 98-54-4 4-tert	mg/l
DERMAL	RBT	LD50	>2000 98-54-4 4-tert	mg/kg
DERMAL	RAT	LD50	>2000 61788-44-1 Phe	mg/kg

#### Hazardous ingredients:

##### PARAFORMALDEHYDE OLIGOMERIC REACTION PRODUCTS WITH 4-TERT-BUTYLPHENOL

ORAL	RAT	LD50	401-2000	mg/kg
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##### PHENOL STYRENATED

DERMAL	RBT	LD50	>7940	mg/kg
Inhalation	RAT	6H LC50	>0.21	mg/l
ORAL	RAT	LD50	3550	mg/kg

#### Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

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Reproductive toxicity	--	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

## Symptoms / routes of exposure

**Skin contact:** Caustic effect on the skin and mucous membranes. Sensitisation possible through skin contact.

**Eye contact:** Strong caustic effect

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

**Inhalation:** Exposure may cause coughing or wheezing.

**Other information:** The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Harmful Corrosive Irritant Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

## Section 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity values:

Species	Test	Value	Units
ALGAE 1477-55-0 m-phenylenebis(methylami	72H EC50	20.3	mg/l
ALGAE 25513-64-8 trimethylhexane-1,6-dia	72H EC50	29.5	mg/l
ALGAE 98-54-4 4-tert-butylphenol	72H EC50	<100	mg/l
Bacteria 25513-64-8 trimethylhexane-1,6-	17H EC50	89	mg/l
Daphnia magna 1477-55-0 m-phenylenebis(m	48H EC50	15.2	mg/l
Daphnia magna 25513-64-8 trimethylhexane	48H EC50	31.5	mg/l
Daphnia magna 98-54-4 4-tert-butylphenol	48H EC50	3.9	mg/l
FISH 1477-55-0 m-phenylenebis(methylamin	96H LC50	>100	mg/l
FISH 25513-64-8 trimethylhexane-1,6-diam	48H LC50	174	mg/l
FISH 98-54-4 4-tert-butylphenol	96H LC50	>1	mg/l

[cont...]



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## Hazardous ingredients:

### PARAFORMALDEHYDE OLIGOMERIC REACTION PRODUCTS WITH 4-TERT-BUTYLPHENOL

ALGAE	48H EC50	10-100	mg/l
DAPHNIA	48H EC50	10-100	mg/l
FISH	96H LC50	10-100	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:** No data available.

#### 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:** No data available.

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

**Disposal operations:** For disposal, local regulations issued by the authorities must be observed. Dispose of liquid components at a suitable incineration plant. After curing, the product can be disposed of with household waste.

**Recovery operations:** Not applicable.

**Waste code number:** 08 00 00

**Disposal of packaging:** Dispose of waste and residues in accordance with local authority requirements.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### Section 14: Transport information

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## 14.1. UN number

UN number: UN2735

## 14.2. UN proper shipping name

Shipping name: 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 4-tert-butylphenol), ENVIRONMENTALLY HAZARDOUS

## 14.3. Transport hazard class(es)

Transport class: 8

## 14.4. Packing group

Packing group: ii

## 14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

## 14.6. Special precautions for user

## 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: H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

[cont...]

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H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H361: Suspected of damaging fertility or the unborn child <state specific effect if known>  
<state route of exposure if it is conclusively proven that no other routes of exposure  
cause the hazard>.

H361f: Suspected of damaging fertility.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

**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.