

**SAFETY DATA SHEET**  
RIZISTAL EC250 - HARDENER

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Revision No: 3

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

**1.1. Product identifier**

**Product name:** RIZISTAL EC250 - 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.

Unit 4

Park 66

Bury

Lancashire

BL9 8RZ

United Kingdom

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

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

**Email:** 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.

**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

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GHS07: Exclamation mark

GHS09: Environmental



**Signal words:** Danger

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

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with 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.

P310: Immediately call 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

### 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; Aquatic Chronic 1: H410	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.

##### 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.

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### 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.

### 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 EC250 - 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

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

**Hazardous ingredients:**

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

ORAL	RAT	LD50	401-2000	mg/kg
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**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
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**

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### 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

#### 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.

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**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**

**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.

H317: May cause an allergic skin reaction.

[cont...]



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H318: Causes serious eye damage.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H361: Suspected of damaging fertility or the unborn child.

H361f: Suspected of damaging fertility.

H410: Very toxic to aquatic life with long lasting effects.

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.