

## SAFETY DATA SHEET TROPICALISED VARNISH

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name TROPICALISED VARNISH  
Product No. TRV, ETRV500ML, ZE

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

Identified uses Manufacture of electrical equipment  
Uses advised against At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available

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

Supplier ELECTROLUBE. A division of HK  
WENTWORTH LTD  
ASHBY PARK, COALFIELD WAY,  
ASHBY DE LA ZOUCH, LEICESTERSHIRE  
LE65 1JR  
UNITED KINGDOM  
+44 (0)1530 419600  
+44 (0)1530 416640  
info@hkw.co.uk

#### 1.4. Emergency telephone number

+44 (0)1530 419600 between 8.30am - 5.00pm GMT Mon – Fri

### SECTION 2: HAZARDS IDENTIFICATION

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

##### Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Liq. 2 - H225
Human health	Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; Repr. 2 - H361d; STOT SE 3 - H336; STOT RE 2 - H373
Environment	Not classified.

##### Classification (1999/45/EEC)

Xn; R48/20. Repr. Cat. 3; R63. Xi; R36/38. R43. F; R11. R67.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### 2.2. Label elements

Contains TOLUENE  
2-OCTYL-2H-ISOTHIAZOL-3-ONE

Label In Accordance With (EC) No. 1272/2008



##### Signal Word

Danger

##### Hazard Statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.

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H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

### Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P281	Use personal protective equipment as required.
P280	Wear protective gloves, eye and face protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Get medical advice/attention.

### Supplementary Precautionary Statements

P260	Do not breathe vapour/spray.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.

### 2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

<b>TOLUENE</b>	<b>30-60%</b>
CAS-No.: 108-88-3	EC No.: 203-625-9
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304	Classification (67/548/EEC) F;R11 Repr. Cat. 3;R63 Xn;R48/20,R65 Xi;R38 R67
<b>BUTANONE</b>	<b>10-30%</b>
CAS-No.: 78-93-3	EC No.: 201-159-0
	Registration Number: 01-2119457290-43
Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R66 R67
<b>2-OCTYL-2H-ISOTHIAZOL-3-ONE</b>	<b>&lt;0.1%</b>
CAS-No.: 26530-20-1	EC No.: 247-761-7
Classification (EC 1272/2008) Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) T;R23/24 C;R34 Xn;R22 R43 N;R50/53

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

# TROPICALISED VARNISH

## Composition Comments

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### Inhalation

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

#### Ingestion

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Get medical attention immediately!

#### Skin contact

Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

#### Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

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

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

Treat Symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Extinguishing media

Fire can be extinguished using: Foam. Dry chemicals, sand, dolomite etc.

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

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

### 6.2. Environmental precautions

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

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Clean-up personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers.

### 6.4. Reference to other sections

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Use explosion proof electric equipment.

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

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

### 7.3. Specific end use(s)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

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Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
BUTANONE	WEL	200 ppm	600 mg/m <sup>3</sup>	300 ppm	899 mg/m <sup>3</sup>	Sk
TOLUENE	WEL	50 ppm	191 mg/m <sup>3</sup>	100 ppm	384 mg/m <sup>3</sup>	Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

### BUTANONE (CAS: 78-93-3)

#### **DNEL**

Industry	Dermal	Long Term	1161	mg/kg/day
Industry	Inhalation.	Long Term	600	mg/m <sup>3</sup>
Consumer	Dermal	412	mg/kg/day	
Inhalation.	106	mg/m <sup>3</sup>		
Oral	31	mg/kg/day		

#### **PNEC**

Freshwater	55.8	mg/l
Marinewater	55.8	mg/l
STP	709	mg/l
Sediment	284.7	mg/kg
Soil	22.5	mg/kg

## **8.2. Exposure controls**

### **Protective equipment**



### **Process conditions**

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

### **Engineering measures**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### **Respiratory equipment**

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. It is recommended to use respiratory equipment with combination filter, type A2/P2. EN14387

### **Hand protection**

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Nitrile gloves are recommended. Gloves should conform to EN374

### **Eye protection**

Wear approved, tight fitting safety glasses where splashing is probable. EN166

### **Other Protection**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

### **Hygiene measures**

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance</b>	Liquid Clear
<b>Colour</b>	White / off-white.
<b>Odour</b>	Organic solvents.
<b>Solubility</b>	Insoluble in water
<b>Relative density</b>	0.910 @ 20 °C (68 F)
<b>Vapour pressure</b>	2.9 kPa
<b>Viscosity</b>	2.0 mPas @ 20 °C (68 F)
<b>Flash point (°C)</b>	<0 (32 F) CC (Closed cup).
<b>Auto Ignition Temperature (°C)</b>	>404 (759.2 F)
<b>Flammability Limit - Lower(%)</b>	1.9

Flammability Limit - Upper(%) 10

**9.2. Other information****SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

There are no known reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions.

**10.3. Possibility of hazardous reactions**

Not determined.

**Hazardous Polymerisation**

Will not polymerise.

**10.4. Conditions to avoid**

Avoid heat. Avoid contact with oxidisers or reducing agents.

**10.5. Incompatible materials****Materials To Avoid**

Strong oxidising substances.

**10.6. Hazardous decomposition products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Inhalation**

Harmful by inhalation. May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause discomfort if swallowed.

**Skin contact**

May cause sensitisation by skin contact. Product has a defatting effect on skin. Prolonged contact may cause dryness of the skin.

**Eye contact**

Irritating to eyes.

**Route of entry**

Inhalation. Skin absorption.

**Toxicological information on ingredients.****TOLUENE (CAS: 108-88-3)****Toxic Dose 1 - LD 50**

5000 mg/kg (oral rat)

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## BUTANONE (CAS: 78-93-3)

### Toxic Dose 1 - LD 50

>2193 mg/kg (oral rat)

### Acute toxicity:

#### Acute Toxicity (Oral LD50)

> 2193 mg/kg Rat

#### Acute Toxicity (Dermal LD50)

> 5000 mg/kg Rabbit

### Aspiration hazard:

#### Inhalation

Vapour may irritate respiratory system or lungs. Vapours may cause drowsiness and dizziness.

#### Ingestion

May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.

#### Skin contact

Irritating to skin. Repeated exposure may cause skin dryness or cracking.

#### Eye contact

Irritating to eyes.

## 2-OCTYL-2H-ISOTHIAZOL-3-ONE (CAS: 26530-20-1)

### Toxic Dose 1 - LD 50

>500 mg/kg (oral rat)

### Toxic Dose 2 - LD 50

>900 dermal mg/kg (oral rat)

### Toxic Conc. - LC 50

0.27 mg/l/4h (inh-rat)

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Not regarded as dangerous for the environment.

### 12.1. Toxicity

#### Ecological information on ingredients.

### TOLUENE (CAS: 108-88-3)

LC 50, 96 Hrs, Fish mg/l

24

EC 50, 48 Hrs, Daphnia, mg/l

19.6

### BUTANONE (CAS: 78-93-3)

#### Acute Fish Toxicity

Not considered toxic to fish.

LC 50, 96 Hrs, Fish mg/l

3200 - 5600

EC 50, 48 Hrs, Daphnia, mg/l

7060

### 12.2. Persistence and degradability

#### Degradability

There are no data on the degradability of this product.

#### Ecological information on ingredients.

### BUTANONE (CAS: 78-93-3)

#### Degradability

The product is easily biodegradable.

### 12.3. Bioaccumulative potential

#### Bioaccumulative potential

No data available on bioaccumulation.

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## Ecological information on ingredients.

### BUTANONE (CAS: 78-93-3)

#### Bioaccumulative potential

No data available on bioaccumulation.

## **12.4. Mobility in soil**

### Mobility:

Not considered mobile.

## Ecological information on ingredients.

### BUTANONE (CAS: 78-93-3)

#### Mobility:

The product is soluble in water.

## **12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

## Ecological information on ingredients.

### BUTANONE (CAS: 78-93-3)

This product does not contain any PBT or vPvB substances.

## **12.6. Other adverse effects**

## Ecological information on ingredients.

### BUTANONE (CAS: 78-93-3)

Not determined.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

## **13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

## **SECTION 14: TRANSPORT INFORMATION**

## **14.1. UN number**

UN No. (ADR/RID/ADN)	1263
UN No. (IMDG)	1263
UN No. (ICAO)	1263

## **14.2. UN proper shipping name**

Proper Shipping Name PAINT

## **14.3. Transport hazard class(es)**

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	

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## 14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

## 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant  
No.

## 14.6. Special precautions for user

EMS	F-E, S-E
Emergency Action Code	•3YE
Hazard No. (ADR)	33
Tunnel Restriction Code	(D/E)

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

#### **Guidance Notes**

Workplace Exposure Limits EH40.

#### **EU Legislation**

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

#### **Authorisations (Title VII Regulation 1907/2006)**

No specific authorisations are noted for this product.

#### **Restrictions (Title VIII Regulation 1907/2006)**

No specific restrictions of use are noted for this product.

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

Issued By	Helen O'Reilly
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Revision	6



# TROPICALISED VARNISH

SDS No. 10601

## Risk Phrases In Full

R34	Causes burns.
R22	Harmful if swallowed.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65	Harmful: may cause lung damage if swallowed.
R11	Highly flammable
R36/38	Irritating to eyes and skin.
R36	Irritating to eyes.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R63	Possible risk of harm to the unborn child.
R66	Repeated exposure may cause skin dryness or cracking.
R23/24	Toxic by inhalation and in contact with skin.
R67	Vapours may cause drowsiness and dizziness.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Hazard Statements In Full

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

## Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.