SAFETY DATA SHEET
TROPICALISED VARNISH

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME TROPICALISED VARNISH
PRODUCT NO. ETRV500ML
APPLICATION Manufacture of electrical equipment
SUPPLIER ELECTROLUBE. A division of HK WENTWORTH LTD
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2 HAZARDS IDENTIFICATION

Highly flammable.
Vapours may cause drowsiness and dizziness.
Irritating to eyes and skin.
May cause sensitisation by skin contact.
Possible risk of harm to the unborn child.
Harmful: danger of serious damage to health by prolonged exposure through inhalation.

CLASSIFICATION Xn;R48/20. Rep 3;R63. Xi;R36/38. R43. F;R11. R67.

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE</td>
<td>203-625-9</td>
<td>108-88-3</td>
<td>30-60%</td>
<td>F;R11 Repr. Cat. 3;R63 Xn;R48/20;R65 Xi;R38 R67</td>
</tr>
<tr>
<td>BUTANONE</td>
<td>201-159-0</td>
<td>78-93-3</td>
<td>10-30%</td>
<td>F;R11 X;R36 R66 R67</td>
</tr>
<tr>
<td>2-OCTYL-2H-ISOTHIAZOL-3-ONE</td>
<td>247-761-7</td>
<td>26530-20-1</td>
<td>&lt;0.1%</td>
<td>T;R23/24 C;R34 Xn;R22 R43 N;R50;R53</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases are Displayed in Section 16

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

4 FIRST-AID MEASURES

NOTES TO THE PHYSICIAN
Treat symptomatically

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.
TROPICALISED VARNISH

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.

5 FIRE-FIGHTING MEASURES

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

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

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS
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.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS
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.

STORAGE PRECAUTIONS
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.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Name</th>
<th>Std</th>
<th>TWA - 8 hrs</th>
<th>STEL - 15 min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUTANONE</td>
<td>WEL</td>
<td>200 ppm(Sk)</td>
<td>600 mg/m3(Sk)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>300 ppm(Sk)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>899 mg/m3(Sk)</td>
<td></td>
</tr>
<tr>
<td>TOLUENE</td>
<td>WEL</td>
<td>50 ppm(Sk)</td>
<td>191 mg/m3(Sk)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>150 ppm(Sk)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>574 mg/m3(Sk)</td>
<td></td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS
WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT

ENGINEERING MEASURES
Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT
Respiratory protection must be used if air contamination exceeds acceptable level.

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.

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

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 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.
TROPICALISED VARNISH

9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE</td>
<td>Liquid Clear</td>
</tr>
<tr>
<td>COLOUR</td>
<td>White / off-white</td>
</tr>
<tr>
<td>ODOR</td>
<td>Organic solvents.</td>
</tr>
<tr>
<td>SOLUBILITY</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>RELATIVE DENSITY</td>
<td>0.910 @ 20 °c</td>
</tr>
<tr>
<td>VISCOSITY</td>
<td>2.0  mPas @ 20 °c</td>
</tr>
<tr>
<td>TEMPERATURE (°C)</td>
<td>&gt;404</td>
</tr>
<tr>
<td>FLAMMABILITY LIMIT - LOWER(%)</td>
<td>1.9</td>
</tr>
</tbody>
</table>

STABILITY
Stable under normal temperature conditions.

CONDITIONS TO AVOID
Avoid heat. Avoid contact with oxidisers or reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

10 STABILITY AND REACTIVITY

11 TOXICOLOGICAL INFORMATION

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.

    | Name          | Toxic Dose 1 - LD 50 |
    |---------------|----------------------|
    | TOLUENE       | 5000 mg/kg (oral rat) |
    | BUTANONE      | 2737 mg/kg (oral rat)  |

12 ECOLOGICAL INFORMATION

ECOTOXICITY
Not regarded as dangerous for the environment.

    | Name          | LC 50, 96 Hrs, FISH mg/l | EC 50, 48 Hrs, DAPHNIA, mg/l |
    |---------------|--------------------------|-----------------------------|
    | TOLUENE       | 24                       | 19.6                        |
    | BUTANONE      | 3200 - 5600              | 7060                        |

13 DISPOSAL CONSIDERATIONS

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

14 TRANSPORT INFORMATION
**Symptoms**

![Harmful](image1.png) ![Highly Flammable](image2.png)

**Contains**

- Toluene
- 2-Octyl-2H-Isothiazol-3-one

**Risk Phrases**

- R11: Highly flammable.
- R36/38: Irritating to eyes and skin.
- R43: May cause sensitisation by skin contact.
- R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R53: Possible risk of harm to the unborn child.
- R67: Vapours may cause drowsiness and dizziness.

**Safety Phrases**

- S9: Keep container in a well-ventilated place.
- S16: Keep away from sources of ignition - No smoking.
- S25: Avoid contact with eyes.
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37: Wear suitable protective clothing and gloves.
- S51: Use only in well-ventilated areas.

**UK Regulatory References**

- Chemicals (Hazard Information & Packaging) Regulations.
- The Control of Substances Hazardous to Health Regulations 1988.

**Environmental Listing**

- Control of Pollution Act 1974.
- Control of Pollution (Special Waste Regulations) Act 1980.
EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

System of specific information relating to Dangerous Preparations. 2001/58/EC.


APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

RISK PHRASES IN FULL

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

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.