MATERIAL SAFETY DATA SHEET
UNIVERSAL ACRYLIC THINNERS

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

PRODUCT NAME: UNIVERSAL ACRYLIC THINNERS
PRODUCT NO.: UAT
EUAT2.5L
EUAT05L
ZE

APPLICATION: Manufacture of electrical equipment

SUPPLIER: ELECTROLUBE. A division of HK WENTWORTH LTD
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EMERGENCY TELEPHONE: Tel: 029938 1566 between 8.30am and 5.00pm EST

PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (TOLUENE, SOLVENT NAPTHA (petroleum, light))

2 HAZARDS IDENTIFICATION

RISK PHRASES
R11 Highly flammable.
R36/38 Irritating to eyes and skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
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.
S24/25 Avoid contact with skin and 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.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

The above phrases are the risks associated with the product

ENVIRONMENT
The product is not expected to be hazardous to the environment.

PHYSICAL AND CHEMICAL HAZARDS
The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures.

STATEMENT OF HAZARDOUS NATURE
HAZARDOUS SUBSTANCE (According to criteria of NOHSC). DANGEROUS GOODS (According to ADG Code).

DG CLASS
Class 3: Flammable liquids.

PACKING GROUP

II
UNIVERSAL ACRYLIC THINNERS

UN NO. 1993
HAZCHEM CODE •3YE

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content %</th>
<th>Classification (67/548)</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>METHYL ETHYL KETONE</td>
<td>201-159-0</td>
<td>78-93-3</td>
<td>30-60%</td>
<td>F;R11 Xi;R36 R66 R67</td>
</tr>
<tr>
<td>SOLVENT NAPHTHA (petroleum, light)</td>
<td>265-199-0</td>
<td>64742-95-6</td>
<td>&lt;0.5%</td>
<td>Xn;R65. Xi;R37. N;R51/53. R10.</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases is 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.

**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. Use tepid water for rinsing

### 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.

HAZCHEM CODE •3YE

### 6 ACCIDENTAL RELEASE MEASURES

#### ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground.

#### 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>METHYL ETHYL KETONE</td>
<td>ES-TWA</td>
<td>150 ppm</td>
<td>445 mg/m3</td>
<td>890 mg/m3</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>ES-TWA</td>
<td>50 ppm(Sk)</td>
<td>191 mg/m3(Sk)</td>
<td>574 mg/m3(Sk)</td>
</tr>
</tbody>
</table>
UNIVERSAL ACRYLIC THINNERS

INGREDIENT COMMENTS
Australian exposure limits are: LT= ES-TWA and ST= ES STEL

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.

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>Colourless</td>
</tr>
<tr>
<td>ODOUR</td>
<td>Organic solvents.</td>
</tr>
<tr>
<td>SOLUBILITY</td>
<td>Insoluble in water Soluble in: Acetone Miscible with: Alcohol Chloroform Ether.</td>
</tr>
<tr>
<td>RELATIVE DENSITY</td>
<td>0.850 @ 20 °c</td>
</tr>
<tr>
<td>VAPOUR PRESSURE</td>
<td>2.9 kPa</td>
</tr>
<tr>
<td>FLASH POINT (°C)</td>
<td>-7 (19.4F) CC (Closed cup).</td>
</tr>
<tr>
<td>AUTO IGNITION TEMPERATURE (°C)</td>
<td>&gt;515 (959F)</td>
</tr>
<tr>
<td>FLAMMABILITY LIMIT - LOWER(%)</td>
<td>1.9</td>
</tr>
<tr>
<td>FLAMMABILITY LIMIT - UPPER(%)</td>
<td>10</td>
</tr>
</tbody>
</table>

10 STABILITY AND REACTIVITY

STABILITY
Stable under normal temperature conditions.

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

HAZARDOUS DECOMPOSITION PRODUCTS

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
TOLUENE
Toxic Dose 1 - LD 50 5000 mg/kg (oral rat)
Name
METHYL ETHYL KETONE
Toxic Dose 1 - LD 50 2737 mg/kg (oral rat)

12 ECOLOGICAL INFORMATION

ECOTOXICITY
The product is not expected to be hazardous to the environment.

Name
TOLUENE
LC 50, 96 Hrs, Fish mg/l 24
EC 50, 48 Hrs, Daphnia, mg/l 19.6
Name
METHYL ETHYL KETONE
LC 50, 96 Hrs, Fish mg/l 3200 - 5600
EC 50, 48 Hrs, Daphnia, mg/l 7060

13 DISPOSAL CONSIDERATIONS

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

14 TRANSPORT INFORMATION

PROPER SHIPPING NAME FLAMMABLE LIQUID, N.O.S. (TOLUENE, SOLVENT NAPHTHA (petroleum, light))
ADG CLASS Class 3: Flammable liquid
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT No.
UN NO. 1993
ADG CLASS NO. 3
DG CLASS Class 3: Flammable liquids.
PACKING GROUP II
TUNNEL RESTRICTION CODE (D/E)
ADG LABEL NO. 3
HAZCHEM CODE •3YE
UN NO. SEA 1993
IMDG CLASS 3
IMDG PACK GR. II
EMS F-E, S-E
UN NO. AIR 1993
AIR CLASS 3
AIR PACK GR. II

15 REGULATORY INFORMATION

LABELLING
UNIVERSAL ACRYLIC THINNERS

CONTAINS

TOLUENE

RISK PHRASES

R11 Highly flammable.
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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.

POISONS SCHEDULE NUMBER

NONE

NATIONAL REGULATIONS AND REFERENCES

National Model Regulations for the Control of Workplace Hazardous Substances.
National Code of Practice for the Control of Workplace Hazardous Substances.
National Code of Practice for the Labelling of Workplace Substances.
National Code of Practice for the Preparation of Material Safety Data Sheets.
Approved Criteria for Classifying Hazardous Substances.
Exposure Standards for Atmospheric Contaminants in the Occupational Environment.

16 OTHER INFORMATION

REVISION COMMENTS

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC NOTE: Lines within the margin indicate significant changes from the previous revision.

ISSUED BY

Helen O'Reilly

REVISION DATE

NOVEMBER 2010

REV. NO./REPL. SDS

6

GENERATED

SDS NO.

10611
UNIVERSAL ACRYLIC THINNERS

RISK PHRASES IN FULL

R10  Flammable.
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  Irritating to eyes.
R37  Irritating to respiratory system.
R38  Irritating to skin.
R63  Possible risk of harm to the unborn child.
R66  Repeated exposure may cause skin dryness or cracking.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.