**REVISION DATE: MAY 2004** 

### SAFETY DATA SHEET

### SURFACE MOUNT FLUX PENS

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

PRODUCT NAME

SURFACE MOUNT FLUX PENS

PRODUCT NO.

ESMF12P

**SUPPLIER** 

ELECTROLUBE. A division of HK

WENTWORTH LTD

KINGSBURY PARK, MIDLAND ROAD

**SWADLINCOTE** 

DERBYSHIRE, DE11 0AN UNITED KINGDOM +44(0)1283 222 111 +44(0)1283 550 177

#### 2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
PROPAN-2-OL	200-661-7	67-63-0	60-100%	F;R11 Xi;R36 R67

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

#### **3 HAZARDS IDENTIFICATION**

Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.

CLASSIFICATION

Xi;R36. F;R11. R67.

#### **4 FIRST-AID MEASURES**

INHALATION

Not relevant.

INGESTION

DO NOT INDUCE VOMITING! Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Rinse mouth thoroughly. Get medical attention.

SKIN CONTACT

Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. 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. Get medical attention if any discomfort continues.

#### **5 FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA** 

Use: Alcohol resistant foam. Powder. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours.

### 6 ACCIDENTAL RELEASE MEASURES

#### SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers.

## 7 HANDLING AND STORAGE

#### **USAGE PRECAUTIONS**

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

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

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### SURFACE MOUNT FLUX PENS

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
PROPAN-2-OL	OES	400 ppm	999 mg/m3	500 ppm	1250 mg/m3

#### INGREDIENT COMMENTS

OES = Occupational Exposure Standard.

**ENGINEERING MEASURES** 

All handling to take place in well-ventilated area.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

HAND PROTECTION

Use protective gloves. 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. When using do not eat, drink or smoke.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Liquid

BOILING POINT (°C)

82

RELATIVE DENSITY

0.820 @ 20 °c

VAPOUR PRESSURE

4.4 kPa @ 20 °c

VISCOSITY

@ °c

FLASH POINT (°C) 12 C FLAMMABILITY LIMIT - LOWER(%) 2.30

12 OC (Open cup).

AUTO IGNITION TEMPERATURE (°C)425 FLAMMABILITY LIMIT - UPPER(%) 12

# 10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Strong oxidising substances.

### 11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50

1 4700 mg/kg (oral rat)

TOXIC CONC. - LC 50

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

INHALATION

May cause irritation to the respiratory system.

INGESTION

May cause stomach pain or vomiting.

SKIN CONTACT

Prolonged contact may cause dryness of the skin. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

EYE CONTACT

Irritating to eyes.

ROUTE OF ENTRY

Skin absorption. Ingestion. Skin and/or eye contact.

TARGET ORGANS

Central nervous system. Eyes. Respiratory system, lungs. Skin.

MEDICAL SYMPTOMS

Irritation of eyes and mucous membranes. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. Skin irritation. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo.

#### 12 ECOLOGICAL INFORMATION

### SURFACE MOUNT FLUX PENS

#### **ECOTOXICITY**

Not regarded as dangerous for the environment. LC 50, 96 Hrs, FISH mg/l 9600
IC 50, 72 Hrs, ALGAE, mg/l 1800

### 13 DISPOSAL CONSIDERATIONS

### **DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand, dispose in licensed special waste.

#### 14 TRANSPORT INFORMATION



UK ROAD CLASS 3

PROPER SHIPPING NAME ISOPROPANOL (ISOPROPYL ALCOHOL)

UN NO. ROAD 1219 UK ROAD PACK GR.

ADR CLASS NO. 3 ADR CLASS Class 3: Flammable liquids.

ADR PACK GROUP II HAZARD No. (ADR) 33

ADR LABEL NO. 3 **HAZCHEM CODE** 2YE CEFIC TEC(R) NO. 30GF1-I+II RID CLASS NO. 3 RID PACK GROUP II UN NO. SEA 1219 IMDG CLASS 3 IMDG PAGE NO. 3244 IMDG PACK GR. П **EMS** F-E; S-D MFAG See Guide MARINE POLLUTANT No. UN NO. AIR 1219 ICAO CLASS 3

AIR PACK GR. II

### 15 REGULATORY INFORMATION

### LABELLING





Irritant Highly Flammable

RISK PHRASES

R11 Highly flammable.
R36 Irritating to eyes.

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.

S51 Use only in well-ventilated areas.

### UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations.

#### **ENVIRONMENTAL LISTING**

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980. Control of Pollution Act 1974.

#### EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EEC. Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC.

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### SURFACE MOUNT FLUX PENS

### APPROVED CODE OF PRACTICE

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

**GUIDANCE NOTES** 

Occupational Exposure Limits EH40.

### 16 OTHER INFORMATION

GENERAL INFORMATION

CN No 38140090

REVISION COMMENTS

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC

ISSUED BY

Helen O'Reilly

REVISION DATE MAY 2004

REV. NO./REPL. SDS GENERATED 1

SDS NO. 10561

RISK PHRASES IN FULL

R11 Highly flammable.
R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

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