

## SAFETY DATA SHEET SOLDER MOUNT REWORK FLUX

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

#### 1.1. Product identifier

**Product name** SOLDER MOUNT REWORK FLUX  
**Product No.** SMFL, ESMFL200D, 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. Aerosol 1 - H222
Human health	Eye Irrit. 2 - H319; Skin Sens. 1 - H317; STOT SE 3 - H336
Environment	Not classified.

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

Xi; R36. R43. F+; R12. R67.

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

#### 2.2. Label elements

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



**Signal Word** Danger

##### Hazard Statements

H222	Extremely flammable aerosol.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

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## Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
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

P261	Avoid breathing vapour/spray.
P410+412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

## 2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

<b>PROPAN-2-OL</b>	<b>60-80%</b>
CAS-No.: 67-63-0	EC No.: 200-661-7
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R67
<b>ROSIN</b>	<b>10-30%</b>
CAS-No.: 8050-09-7	EC No.: 232-475-7
Classification (EC 1272/2008) Skin Sens. 1 - H317	Classification (67/548/EEC) R43

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

### 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. Get medical attention.

#### Ingestion

Immediately rinse mouth and provide fresh air.

#### Skin contact

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

#### 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.

### 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.

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## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Extinguishing media

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

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

#### Hazardous combustion products

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

#### Unusual Fire & Explosion Hazards

Aerosol cans may explode in a fire.

#### Specific hazards

Aerosol containers can explode when heated, due to excessive pressure build-up. Vapours may be ignited by a spark, a hot surface or an ember. Vapours are heavier than air and may travel along the floor and in the bottom of containers.

Vapours may be ignited by a spark, a hot surface or an ember.

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

Move container from fire area if it can be done without risk.

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

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

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

Absorb in vermiculite, dry sand or earth and place into containers. Ventilate well.

### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Provide good ventilation.

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

Store at moderate temperatures in dry, well ventilated area.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
PROPAN-2-OL	WEL	400 ppm	999 mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

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## PROPAN-2-OL (CAS: 67-63-0)

<b>DNEL</b>			
Industry	Dermal	888	mg/kg/day
Industry	Inhalation.	500	mg/m <sup>3</sup>
Consumer	Dermal	319	mg/kg/day
Consumer	Inhalation.	89	mg/m <sup>3</sup>
Consumer	Oral	26	mg/kg/day
<b>PNEC</b>			
Freshwater	140.9	mg/l	
Marinewater	140.9	mg/l	
Sediment	552	mg/kg	
Soil	28	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. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

### **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/P3. 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 chemical safety goggles where eye exposure is reasonably probable. EN166

### **Other Protection**

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

### **Hygiene measures**

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

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

<b>Appearance</b>	Aerosol. Liquid
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic.
<b>Solubility</b>	Insoluble in water
<b>Initial boiling point and boiling range (°C)</b>	82 (179.6 F)
<b>Melting point (°C)</b>	-89 (-128.2 F)
<b>Relative density</b>	0.820 @ 20 °C (68 F)
<b>Flash point (°C)</b>	
CC (Closed cup).	
<b>Auto Ignition Temperature (°C)</b>	425 (797 F)
<b>Flammability Limit - Lower(%)</b>	2
<b>Flammability Limit - Upper(%)</b>	12

### **9.2. Other information**

<b>Volatility Description</b>	Volatile
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## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

No specific reactivity hazards associated with this product.

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## **10.2. Chemical stability**

Stable under normal temperature conditions.

## **10.3. Possibility of hazardous reactions**

Not applicable.

### **Hazardous Polymerisation**

Will not polymerise.

## **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition. Avoid contact with acids and alkalis.

## **10.5. Incompatible materials**

### **Materials To Avoid**

Flammable/combustible material. Strong acids. Strong alkalis. 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**

#### **Other Health Effects**

This substance has no evidence of carcinogenic properties.

#### **Inhalation**

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.

#### **Skin contact**

Product has a defatting effect on skin. Prolonged contact may cause dryness of the skin. Prolonged or repeated exposure may cause severe irritation.

#### **Eye contact**

Irritating to eyes.

#### **Route of entry**

Skin and/or eye contact. Inhalation.

#### **Toxicological information on ingredients.**

#### **PROPAN-2-OL (CAS: 67-63-0)**

##### **Acute toxicity:**

##### **Acute Toxicity (Oral LD50)**

5280 mg/kg Rat

##### **Acute Toxicity (Dermal LD50)**

12800 mg/kg Rabbit

##### **Acute Toxicity (Inhalation LC50)**

72.6 mg/l (vapours) Rat 4 hours

## **SECTION 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Not regarded as dangerous for the environment.

### **12.1. Toxicity**

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## Ecological information on ingredients.

### PROPAN-2-OL (CAS: 67-63-0)

#### **Acute Toxicity - Fish**

LC50 96 hours 9640 mg/l Pimephales promelas (Fat-head Minnow)

#### **Acute Toxicity - Aquatic Invertebrates**

EC50 48 hours 13299 mg/l Daphnia magna

#### **Acute Toxicity - Aquatic Plants**

EC50 72 hours > 1.000 mg/l Scenedesmus subspicatus

#### **Acute Toxicity - Microorganisms**

EC50 > 1.000 mg/l Activated sludge

## **12.2. Persistence and degradability**

## **12.3. Bioaccumulative potential**

## **12.4. Mobility in soil**

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

## **12.6. Other adverse effects**

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

## **SECTION 14: TRANSPORT INFORMATION**

### **14.1. UN number**

UN No. (ADR/RID/ADN)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950

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

Proper Shipping Name                      AEROSOLS

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

ADR/RID/ADN Class	2.1
ADR/RID/ADN Class	Class 2: Gases
ADR Label No.	2.1
IMDG Class	2.1
ICAO Class/Division	2.1
Transport Labels	



### **14.4. Packing group**

Not applicable.

### **14.5. Environmental hazards**

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Environmentally Hazardous Substance/Marine Pollutant

No.

## 14.6. Special precautions for user

EMS F-D, S-U

Tunnel Restriction Code (D)

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

No information required.

## 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

Revision Date APRIL 2013

Revision 7

SDS No. 10562

#### Risk Phrases In Full

R12 Extremely flammable.  
R11 Highly flammable  
R36 Irritating to eyes.  
R43 May cause sensitisation by skin contact.  
R67 Vapours may cause drowsiness and dizziness.

#### Hazard Statements In Full

H222 Extremely flammable aerosol.  
H225 Highly flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

# SOLDER MOUNT REWORK FLUX

## 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.