

**MATERIAL 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
Proper Shipping Name AEROSOLS

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

Application: 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 H K WENTWORTH PTY LIMITED
 P.O. BOX 339
 BROOKVALE, NSW 2100
 AUSTRALIA
 TEL: 02 9938 1566
 FAX: 02 9938 1467
 GENERAL MANAGER

1.4. Emergency telephone number

Tel: 029938 1566 between 8.30am and 5.00pm EST

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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.

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.

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P305+351+338

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/attention.

P313

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.

StAtement Of Hazardous Nature

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

ADR Class Class 2: Gases

UN No. Road 1950

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

PROPAN-2-OL	60-80%
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) F;R11 Xi;R36 R67
ROSIN	10-30%
CAS-No.: 8050-09-7	EC No.: 232-475-7
Classification (EC 1272/2008) Skin Sens. 1 - H317	Classification (67/548) R43
CARBON DIOXIDE	1-5%
CAS-No.: 124-38-9	EC No.: 204-696-9
Classification (EC 1272/2008) Not classified.	Classification (67/548) Not classified.

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

Composition Comments

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

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.

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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.

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

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Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
CARBON DIOXIDE		5000 ppm	9000 mg/m3	30000 ppm	54000 mg/m3	
PROPAN-2-OL	ES-TWA	400 ppm	983 mg/m3	500 ppm	1230 mg/m3	

Ingredient Comments

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

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

Industry	Dermal	888	mg/kg/day
Industry	Inhalation.	500	mg/m3
Consumer	Dermal	319	mg/kg/day
Consumer	Inhalation.	89	mg/m3
Consumer	Oral	26	mg/kg/day

PNEC

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**

Appearance	Aerosol. Liquid
Colour	Colourless.
Odour	Characteristic.
Solubility	Insoluble in water
Boiling Point (°C)	82 (179.6 F)
Melting point (°C)	-89 (-128.2 F)
Relative density	0.820 @ 20 °C (68 F)
Flash point (°C)	
CC (Closed cup).	

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Auto Ignition Temperature (°C)	425 (797 F)
Flammability Limit - Lower(%)	2
Flammability Limit - Upper(%)	12

9.2. Other information

Volatility Description	Volatile
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SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No specific reactivity hazards associated with this product.

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:

SOLDER MOUNT REWORK FLUX**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**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. Road 1950

UN No. Sea 1950

UN No., Air 1950

14.2. UN proper shipping name

Proper Shipping Name AEROSOLS

14.3. Transport hazard class(es)

ADR Class No. 2.1

ADR Class Class 2: Gases

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ADR Label No. 2.1
 IMDG Class 2.1
 ICAO Class 2.1
 Transport Labels

**14.4. Packing group**

Not applicable.

14.5. Environmental hazards

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.

UDF Phrase 1 Class 2.1: Flammable gases

SECTION 15: REGULATORY INFORMATION

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.
 Australian Dangerous Goods Code. The Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

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

SOLDER MOUNT REWORK FLUX

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.

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.