

MATERIAL SAFETY DATA SHEET SURFACE MOUNT FLUX PENS

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

PRODUCT NAME SURFACE MOUNT FLUX PENS

PRODUCT NO. SMF
ESMF12P
ZE

APPLICATION Manufacture of electrical equipment

SUPPLIER H K WENTWORTH PTY
LIMITED
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AUSTRALIA
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GENERAL MANAGER

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PROPER SHIPPING NAME ISOPROPANOL (ISOPROPYL ALCOHOL)

2 HAZARDS IDENTIFICATION

RISK PHRASES

R11 Highly flammable.
R36 Irritating to eyes.
R43 May cause sensitisation by skin contact.
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.
S37 Wear suitable gloves.
S51 Use only in well-ventilated areas.
S60 This material and its container must be disposed of as hazardous waste.

The above phrases are the risks associated with the product

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

UN NO. 1219

HAZCHEM CODE •2YE

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548)
PROPAN-2-OL	200-661-7	67-63-0	80-100%	F;R11 Xi;R36 R67
ROSIN	232-475-7	8050-09-7	1-5%	R43

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 Ingredients are registered on AICS

SURFACE MOUNT FLUX PENS

4 FIRST-AID MEASURES

NOTES TO THE PHYSICIAN

Treat symptomatically

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.

HAZCHEM CODE •2YE

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 dry, cool and well-ventilated place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
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

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.

SURFACE MOUNT FLUX PENS

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 OC (Open cup).
AUTO IGNITION TEMPERATURE (°C)	425
FLAMMABILITY LIMIT - LOWER(%)	2.30
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

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.

Name	PROPAN-2-OL
Toxic Dose 1 - LD 50	5045 mg/kg (oral rat)
Toxic Dose 2 - LD 50	3600 mg/kg (oral-mouse)
Toxic Conc. - LC 50	47-73 mg/l/4h (inh-rat)

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

Name	PROPAN-2-OL
LC 50, 96 Hrs, Fish mg/l	9600
EC 50, 48 Hrs, Daphnia, mg/l	10000

13 DISPOSAL CONSIDERATIONS

SURFACE MOUNT FLUX PENS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

14 TRANSPORT INFORMATION



PROPER SHIPPING NAME	ISOPROPANOL (ISOPROPYL ALCOHOL)
ADG CLASS	Class 3: Flammable liquid
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT	No.
UN NO.	1219
ADG CLASS NO.	3
DG CLASS	Class 3: Flammable liquids.
PACKING GROUP	II
TUNNEL RESTRICTION CODE	(D/E)
ADG LABEL NO.	3
HAZCHEM CODE	•2YE
UN NO. SEA	1219
IMDG CLASS	3
IMDG PACK GR.	II
EMS	F-E, S-D
UN NO. AIR	1219
AIR CLASS	3
AIR PACK GR.	II

15 REGULATORY INFORMATION

LABELLING



Irritant



Highly Flammable

CONTAINS ROSIN

RISK PHRASES

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POISONS SCHEDULE NUMBER NONE

SURFACE MOUNT FLUX PENS

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.

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).

16 OTHER INFORMATION

ISSUED BY

Helen O'Reilly

REVISION DATE

NOVEMBER 2010

REV. NO./REPL. SDS

4

GENERATED

SDS NO.

10561

RISK PHRASES IN FULL

R11	Highly flammable.
R36	Irritating to eyes.
R43	May cause sensitisation by skin contact.
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.

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