

SAFETY DATA SHEET

SURFACE MOUNT FLUX PENS

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

PRODUCT NAME: SURFACE MOUNT FLUX PENS

PART No.: ESMF12P

SUPPLIER: H K WENTWORTH PTY LIMITED
P.O. BOX 339
BROOKVALE, NSW 2100
AUSTRALIA
Tel: 02 9938 1566
Fax: 02 9938 1566

2. COMPOSITION/INFORMATION ON INGREDIENTS:

NAME	EINECS Nr.:	CLASSIFICATION	CONTENT
CAS No.: PROPAN-2-OL 67-63-0	200-661-7	Xi ,F R-11, 36, 67	60-100 %

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.

HAZARDOUS SUBSTANCE: DANGEROUS GOODS

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: 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.

EYES: 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 CLEANUP 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 oxidizers, heat and flames. Keep in cool, dry, ventilated storage and closed containers. Keep in original container.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT NAME:	CAS No.:	STD	LT EXP 8 Hrs	ST EXP 15 Min
PROPAN-2-OL	67-63-0	OES	400 ppm	500 ppm

INGREDIENT COMMENTS: OES = Occupational Exposure Standard.

VENTILATION: All handling to take place in well ventilated area.

RESPIRATORS: No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).

PROTECTIVE GLOVES: Use protective gloves.

EYE PROTECTION: Wear approved safety goggles.

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

HYGIENIC WORK PRACTICES: 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. No eating or drinking while working with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	Liquid.		
BOILING POINT (°C, interval):	82	Pressure:	
DENSITY/SPECIFIC GRAVITY (g/ml):	0.820	Temperature (°C):	20
VAPOUR PRESSURE:	4.4 kPa	Temperature (°C):	20
FLASH POINT (°C):	12	Method:	OC (Open cup).
AUTO IGNITION TEMP. (°C):	425		
FLAMMABILITY LIMIT - LOWER(%):	2.30		
FLAMMABILITY LIMIT - UPPER(%):	12		

10. STABILITY AND REACTIVITY:

STABILITY: Normally stable.

CONDITIONS TO AVOID: Avoid heat, flames and other sources of ignition.

11. TOXICOLOGICAL INFORMATION:

TOXIC DOSE - 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:	Prolonged or repeated contact leads to drying of skin. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.
EYES:	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:

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

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS:	Dispose of in accordance with Local Authority requirements. Absorb in vermiculite or dry sand, dispose in licensed special waste.
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14. TRANSPORT INFORMATION:

LABEL FOR CONVEYANCE:

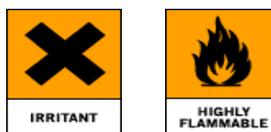


UN No. ROAD:	1219
UK ROAD TRANSPORT CLASS:	3
UK ROAD PACK GR.:	II
ADR CLASS No.:	3
ADR CLASS:	Class 3: Flammable liquids.
ADR ITEM No.:	II
ADR MARGINAL:	2301
ADR LABEL No.:	3
HAZCHEM CODE:	2YE
CEFIC TEC(R) No.:	30GF1-I+II
PROPER SHIPPING NAME I:	ISOPROPANOL (ISOPROPYL ALCOHOL)

RID CLASS No.:	3
RID ITEM No.:	II
UN No. SEA:	1219
IMDG CLASS:	3
IMDG PAGE No.:	3244
IMDG PACK GR.:	II
EmS No.:	F-E; S-D
MFAG TABLE No.:	See Guide
MARINE POLLUTANT:	No.
UN No., AIR:	1219
ICAO CLASS:	3
AIR PACK GR.:	II

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY:



RISK PHRASES:	R-11 Highly flammable. R-36 Irritating to eyes. R-67 Vapours may cause drowsiness and dizziness.
SAFETY PHRASES:	S-16 Keep away from sources of ignition - No Smoking. S-25 Avoid contact with eyes. S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S-51 Use only in well ventilated areas. S-9 Keep container in a well ventilated place.
UK REGULATORY REFERENCES:	Petroleum (Consolidation) Act, as amended 1984 SI 1244. Highly Flammable Liquid Regulations 1972. Fire precautions Act 1971. Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 1988.
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. 91\155. Dangerous Substance Directive 67\548. Dangerous Preparations Directive 88\379.
STATUTORY INSTRUMENTS:	Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.
APPROVED CODE OF PRACTICE:	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations L62.
GUIDANCE NOTES:	Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

16. OTHER INFORMATION:

USER NOTES:	CN No 38140090
REVISION COMMENTS:	Revised in accordance with CHIP3 and EU Directive 1999/45/EC

ISSUED BY: Helen O'Reilly

REVISION DATE: MAY 2003

REV. No./REPL. SDS GENERATED: 0

SDS No.: 10624

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 unless specified in the text. The information contained in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification

R-PHRASES (Full Text): R-11 Highly flammable. R-36 Irritating to eyes. R-67 Vapours may cause drowsiness and dizziness.