

# SAFETY DATA SHEET

PAGE: 1 of 4

PRINT DATE: 20/01/1998

REF: PRP200

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

**Product name:** POSITIVE PHOTORESIST  
**Product code:** PRP200  
**Supplier:** ELECTROLUBE  
H.K. Wentworth Ltd.,  
Wentworth House, Blakes Road,  
Wargrave, Berkshire, RG10 8AW, United Kingdom.  
**Emergency telephone number:** 0118 9404031 **Fax No:** 0118 9403084

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Identification of the preparation

Chemical Name	CAS-No	EC-No	Class	Weight %
DIMETHYL ETHER	115-10-6	204-065-8	F+; R12	< 50
ACETONE	67-64-1	200-662-2	F; R11	< 40
N-BUTYL ACETATE	123-86-4	204-658-1	R10	< 5
1-METHOXY-2-PROPANOL	107-98-2	203-539-1	R10	< 5
2-METHOXY-1-METHYLETHYL ACETATE	108-65-6	203-603-9	R10 Xi; R36	< 4
XYLENE, MIXTURE OF ISOMERS	1330-20-7	215-535-7	R10 Xn; R20/21 Xi; R38	< 2

NON HAZARDOUS CONSTITUENTS

## 3. HAZARDS IDENTIFICATION

**Most important hazards:** Extremely flammable.  
**Specific hazards** High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects. Prolonged skin contact may defat the skin and produce dermatitis. High concentration of vapours may induce unconsciousness / asphyxia. Rapid evaporation of the liquid may cause frostbite.

## 4. FIRST AID MEASURES

**General advice:** Remove from exposure, lie down. Do not give adrenaline or similar drugs.  
**Inhalation:** Move to fresh air. Keep patient warm. Apply artificial respiration only if patient is not breathing. Consult a physician after significant exposure.  
**Skin contact:** In case of contact with liquid, thaw frosted parts with water, then remove clothing carefully. Treat frostbitten areas as needed.  
**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.  
**Ingestion:** Not applicable - gaseous material.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** small amounts Extinguish preferably with dry chemical.  
**Extinguishing media which must not be used for safety reasons:** Do not use water jet.

Product name: **POSITIVE PHOTORESIST**

PRINT DATE: 20/01/1998

REF: PRP200

<b>Specific hazards:</b>	Do not extinguish a leaking gas flame unless absolutely necessary. Consult an expert. Fire or intense heat may cause violent rupture of packages. Water mist may be used to cool closed containers.
<b>Special protective equipment for firefighters:</b>	In the event of fire, wear self-contained breathing apparatus.
<b>Specific methods:</b>	Consult an expert

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Evacuate personnel to safe areas. Remove all sources of ignition. Vapours are heavier than air and may spread along floors. Ensure adequate ventilation.
<b>Environmental precautions:</b>	No special environmental precautions required.
<b>Methods for cleaning up:</b>	Ensure adequate ventilation.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Use only in well-ventilated areas. Do not breath vapours or spray mist. When using, do not eat, drink or smoke. Avoid contact with skin and eyes.
<b>Storage:</b>	Store in a cool and shaded area. Ensure adequate ventilation. Keep away from heat and sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Chemical Name:</b>	<b>National occupational exposure limits:</b>
DIMETHYL ETHER	Long term (8 hrs) = 400ppm/750mgm <sup>-3</sup> Short term (15 min) = 500ppm/940mgm <sup>-3</sup>
ACETONE	Long term (8 hrs) = 750ppm/1780mgm <sup>-3</sup> Short term (15 min) = 1500ppm/3560mgm <sup>-3</sup>
N-BUTYL ACETATE	Long term (8 hrs) = 150ppm Short term (15 min) = 200ppm
1-METHOXY-2-PROPANOL	Long term (8 hrs) = 100ppm/360mgm <sup>-3</sup> Short term (15 min) = 300ppm/1080mgm <sup>-3</sup>
2-METHOXY-1-METHYLETHYL ACETATE	
XYLENE, MIXTURE OF ISOMERS	Long term (8 hrs) = 100ppm / 435mgm <sup>-3</sup> Short term (15 min) = 150ppm / 650mgm <sup>-3</sup>
NON HAZARDOUS CONSTITUENTS	

<b>Engineering measures:</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal protection equipment:</b>	
- <b>Respiratory protection:</b>	not required under normal use.
- <b>Hand protection:</b>	not required under normal use
- <b>Eye protection:</b>	safety glasses
- <b>Skin and body protection:</b>	not required under normal use
<b>Hygiene measures:</b>	When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	liquid	* DME	**Acetone
<b>Colour:</b>	green		
<b>Odour:</b>	Slightly sweet		
<b>Boiling point/range:</b>		56 **	°C
<b>Melting point/range:</b>		< -76 **	°C
<b>Flash point:</b>		- 48 *	°C
<b>Autoignition temperature:</b>		> 235	°C
<b>Explosion limits:</b>	- lower	0.6	vol. %

Product name: **POSITIVE PHOTORESIST**

PRINT DATE: 20/01/1998

REF: PRP200

	- upper	8.3 **	vol. %
Vapour pressure:	( 20 °C)	3200 *	hPa
Relative density:	( 20 °C)	>= 0.823	
Solubility:			
Water solubility		immiscible	(g/l)

**10. STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable. Vapours may form explosive mixture with air.
<b>Conditions to avoid:</b>	Keep away from heat and sources of ignition.
<b>Materials to avoid:</b>	oxidizing agents
<b>Hazardous decomposition products:</b>	No decomposition if stored and applied as directed.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicity:</b>	DME: LC50/inhalation/4h/rat = 16.4% in air Acetone: LD50/oral/rat = 8.5 ml/kg
<b>Local effects:</b>	High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects. Prolonged skin contact may defat the skin and produce dermatitis.
<b>Sensitization:</b>	Not applicable
<b>Long term toxicity:</b>	No data is available on the product itself
<b>Chronic toxicity:</b>	No data is available on the product itself

**12. ECOLOGICAL INFORMATION**

<b>Mobility:</b>	No data is available on the product itself
<b>Persistence and degradability:</b>	Evaporates. No hazards deemed to be of major importance.
<b>Bioaccumulation:</b>	Not applicable
<b>Ecotoxicity effects:</b>	No data is available on the product itself

**13. DISPOSAL CONSIDERATIONS**

<b>Waste from residues / unused products:</b>	Empty remaining contents. In accordance with local and national regulations.
<b>Contaminated packaging:</b>	Do not pierce or burn even when empty

**14. TRANSPORT INFORMATION**

<b>UN-No:</b>	1950	<b>Marine pollutant:</b>	no
<b>ADR/RID</b>			
<b>Class:</b>	2	<b>Item:</b>	5° F
<b>Proper shipping name:</b>	Aerosol dispensers		
<b>IMO</b>			
<b>Class:</b>	2	<b>IMDG Page:</b>	2102
<b>EmS:</b>	2-13	<b>MFAG:</b>	330
<b>Proper shipping name:</b>	Aerosol dispensers		
<b>ICAO</b>			
<b>Class:</b>	2.1		
<b>Proper shipping name</b>	Aerosols, flammable, n.o.s		

**15. REGULATORY INFORMATION**

Classification according to European directive on classification of hazardous preparations 90/492/EEC  
- Contains:

Product name: **POSITIVE PHOTORESIST**

PAGE: 4 of 4  
PRINT DATE: 20/01/1998  
REF: PRP200

- Symbol(s):



F+ -  
Extremely  
flammable

R-phrases: R12 - Extremely flammable.

S-phrases: S3 - Keep in a cool place.. S9 - Keep container in a well-ventilated place.. S16 -  
Keep away from sources of ignition - No smoking. S33 - Take precautionary  
measures against static discharges..

## 16. OTHER INFORMATION

Recommended use:

Recommended restrictions:

Revision number: 3

Further information: CN no: 37079090  
Contact Name: Carolyn Booth  
Department: Technical

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