

SN1000 Photoresist

Part Numbers 600-031 - 1 litre

SN1000 is a professional Photoresist of high solubility, very strong contrast in development and with high adhesive and excellent spreading properties.

SN1000 can be used in spray, dip and spin coating machines, but as it is quick drying it is unsuitable for roller coating.

Storage

SN1000 should be stored in a cool dry dark environment and because of its flammability, away from open flames, welding areas and any other spark source. Shelf Life 12 months, if stored correctly as above.

Mixing

The SN1000 is ready to use. If required it can be thinned with 4010 Universal Solvent (Part: 600-025)

Processing

Processing can be achieved in subdued daylight, however, if continuous and repeated work is to be undertaken, then yellow safe light is recommended.

Coating

Essential for good adhesion of Photoresist is a perfectly clean, grease and water free surface. The work area should be clean, dust free and ventilated. For spray coating these conditions are essential. Desired depth of coating is dependant upon speed of withdrawal when dip coating or r.p.m. when spin coating and should be determined by trial and error. For dip-coating use speeds between 30 and 60 cms per minute. The slower the speed, the thicker the coating. Maximum coating thickness is approximately 6-8 microns.

Drying

For simple applications, air drying between 0.5 – 3 hours at room temperature suffices depending on the thickness of coating. For more demanding applications 24 hours at room temperature or 5-10 minutes in an air circulating oven at $80^{\circ}\text{C} \pm 5^{\circ}\text{C}$ is recommended.

Exposure

SN1000 should be exposed to UV light and has its maximum sensitivity between 220nm and 450nm (365nm is recommended) Mega's UV exposure units are suitable. Optimal exposure time should be established through test exposures.

Artwork.

The artwork must be UV opaque and in order to avoid under-cutting of UV light, should be placed emulsion side down onto the base material.

Developing

SN1000 is alkaline developed. The highest resolution, sharpness or contours and safety is achieved using 4006 developer (part 600-010)

Etching

Ferric Chloride based etching solutions are suitable



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THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BELIEVED TO BE ACCURATE - HOWEVER NO GUARANTEE OR WARRANTY EXPRESSED OR IMPLIED IS GIVEN

SECTION 1

PRODUCT IDENTIFICATION AND MANUFACTURE

NAME: SENO 1000 PHOTORESIST PART Nos. : 600-031
Applicator: 600-001

MANUFACTURER'S/SUPPLIERS NAME, REGISTERED

ADDRESS AND EMERGENCY TEL NO:

MEGA ELECTRONICS LTD.,
THE GRIP INDUSTRIAL ESTATE,
LINTON, CAMBRIDGE.
ENGLAND, CB1 6NR. TELEPHONE: +0044 01223 893900

ORGANISATIONS NAME & ADDRESS AT WHICH

MANUFACTURED

KEPETS GMBH.
NORDSTRASSE 24
D-35641 SCHÖFFENGRUND
LAUFDORF.
GERMANY. TEL: 0049 6445 5023

SECTION 2

COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	%BY WT	CAS & EEC Nos:	HAZARD	R. PHRASE Nos.
BUTYL		N/C	F	10
ACETATE				

SECTION 3 HAZARDS IDENTIFICATION

FLAMMABLE

SECTION 4 FIRST AID MEASURES

INHALATION: REMOVE FROM EXPOSURE TO FRESH AIR. IF IRRITATION OF MUCOUS MEMBRANE OR SICKNESS OCCURS SEEK MEDICAL ADVISE

SKIN CONTACT: IRRIGATE THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. IF SKIN IRRITATION PERSISTS SEEK MEDICAL ADVISE

EYE CONTACT: IRRIGATE THOROUGHLY WITH WATER. OBTAIN MEDICAL ATTENTION.

INGESTION: RINSE MOUTH OUT WITH WATER. SEEK MEDICAL ATTENTION.

MEDICAL NOTES: N/A

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA FOAM, DRY POWDER, CO₂

COMBUSTION PRODUCTS NONE

FIRE/EXPLOSION SCENARIOS NONE UNUSUAL

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS NONE

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION

REFER TO SECTION 8, PERSONAL PROTECTION

ENVIRONMENTAL PRECAUTIONS. AVOID ENTRY INTO DRAINAGE SYSTEM, SEWERS AND EARTH

WORKPLACE PRECAUTIONS

STORE IN ORIGINAL CONTAINER

SECTION 6 ACCIDENTAL RELEASE MEASURES

METHODS FOR CLEARING UP:

ABSORB IN SAND OR OTHER INERT MATERIAL

SECTION 7 HANDLING AND STORAGE

HANDLING PRECAUTIONS NEVER EAT, DRINK OR SMOKE WHEN HANDLING THIS PRODUCT. WEAR PROTECTIVE GLOVES AND CLOTHING. PRODUCT CAN STAIN.

STORAGE INCLUDING ANY SPECIAL REQUIREMENTS (TEMPERATURE, VENTILATION, ETC)

STORE IN WELL VENTILATED AREA IN TIGHTLY CLOSED ORIGINAL CONTAINER. STORE AWAY FROM UV LIGHT.

SECTION 8

EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS/ VENTILATION

WORK IN WELL VENTILATED AREA.

RESPIRATORY PROTECTION

NOT NECESSARY IS USED ACCORDING TO INSTRUCTIONS.

EYE PROTECTION WEAR PROTECTIVE GLASSES.

HAND PROTECTION WEAR PROTECTIVE RUBBER GLOVES

SKIN PROTECTION ALWAYS OBSERVE ALL USUAL PRECAUTIONS WHEN HANDLING CHEMICALS. DO NOT EAT, DRINK OR SMOKE WHEN HANDLING.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: LIQUID **COLOUR:** BLUE / GREEN

ODOUR: FRUITY **ACIDITY/ALKALINITY pH:** NEUTRAL
BOILING POINT 120°C **MELTING POINT :** 76°C

FLASH POINT °C (Open/Closed Cup): 25°C

AUTOIGNITION TEMP °C: 420°C

VAPOUR PRESSURE at 20°C: 12.5 mbar

RELATIVE VAPOUR DENSITY (air = 1): 0.94 gr / ccm
(of principle component and name):

VISCOSITY: = 0.7 mPAS AT 25°C

SECTION 10

STABILITY AND REACTIVITY PROPERTIES

CONDITIONS TO AVOID: HEAT, SPARKS, FLAMES

MATERIALS TO AVOID: STRONG OXIDISING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERISATION WILL NOT OCCUR N/A

SECTION 11 TOXICOLOGICAL INFORMATION

EFFECT OF EYE CONTACT: IRRITATING EFFECT

EFFECT OF SKIN CONTACT: SLIGHT IRRITATION, REPEATED LONG CONTACT MAY CAUSE DERMATITIS

EFFECT OF INHALATION:

CAN CAUSE NAUSEA IN HIGH CONCENTRATION

EFFECT OF INGESTION: N/A

LD50 (ORAL RAT): 1400mg / 1 kg

SECTION 12 ECOLOGICAL INFORMATION

possible environmental effects and behaviour /ODP/ aquatic toxicity
EC50 (DAPHNIA): 100mg / LLC50 (FISH)100mg / L

SECTION 13 DISPOSAL CONSIDERATIONS

ALWAYS DISPOSE OF ACCORDING TO LOCAL GOVERNMENT REGULATIONS. IN ACCORDANCE WITH LOCAL REGULATIONS VIA A LICENSED CONTRACTOR.

SECTION 14 TRANSPORT INFORMATION

NOT CLASSIFIED

SECTION 15 REGULATORY INFORMATION

PRODUCT TRADE NAME SENO 1000 PHOTRESIST

CONTAINS: BUTYL ACETATE

HAZARD SYMBOL: F

RISK PHRASE NOs & WORDS: 10

IRRITATING TO EYES. IRRITATING TO RESPIRATORY SYSTEM. IRRITATING TO SKIN. HARMFUL IF SWALLOWED

SAFETY PHRASE Nos & Words

S3 /7 /9 KEEP CONTAINER TIGHTLY CLOSED IN A COOL VENTILATED PLACE.

S24 /25 AVOID CONTACT WITH SKIN AND EYES

S/36 /37 WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES

OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS:

Use only as directed.