Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- **Products name**: SU-8 negative-tone photoresist
- **Products Types**: GMP110xx series
- **Distributor**: Gersteltec Sàrl
  26, avenue du Général Guisan
  CH-1009 Pully, Switzerland
- **Telephone**: +41 (0) 79 564 34 23
- **Fax**: +41 (0) 21 728 35 83
- **Emergency phone**: +41 (0) 44 251 5151 (Tox Zentrum)
- **Email**: info@gersteltec.ch

Section 2. HAZARDS IDENTIFICATION

Risk advice to man and the environment.
Harmful if swallowed. Irritating to eyes and skin.
Possible sensitizer.
Risk of serious damage to eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing.

Section 3. COMPOSITION, INFORMATION ON COMPONENTS

- **Chemical products**: Novolac phenol epoxy resin (CAS number: 28906-96-9) mixed in Gamma Butyrolactone (CAS number: 96-48-0).
- **Additional information**: Contains photoinitiator without antimony. Confidential composition.

Section 4. FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.
If swallowed, wash out mouth with water to a conscious person. Call a physician.
If inhaled, remove to fresh air, and give oxygen if breathing is difficult. Call a physician.
In case of skin contact, flush with copious amounts of water for at least 15 minutes. Call a physician.
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5. FIRE FIGHTING MEASURES

- **Extinguishing media**: Carbon dioxide, dry chemical powder or appropriate foam, water spray.
- **Specific hazards**: Combustible liquid. Emits toxic fumes under fire conditions.
- **Special protective equipment for fire-fighters**: Wear self contained breathing apparatus for fire fighting if necessary.
Section 6. ACCIDENTAL RELEASE MEASURES

**Personal protection:**
Wear suitable protective clothing. Avoid breathing vapours or gases. Ventilate area.

**Environmental protection:**
Avoid direct release into drains, place in closed containers for disposal.

**Methods for cleaning up:**
Ventilate area and wash spill site after material pickup with inert absorbent material is complete. Keep the waste in suitable closed container for disposal.

Section 7. HANDLING AND STORAGE

**Handling:**
Use only under yellow light.
Safety shower and eye bath.
Mechanical exhaust required.
Avoid prolonged or repeated exposure.
Do not breathe vapour.
Avoid contact with eyes, skin and clothing.
Chemical resistant and safety gloves.

**Storage:**
Store in a dry fresh place (10-20°C).
Keep tightly closed.
Light sensitive.
Hygroscopic.

**Instructions for use:**
Refer to Data Sheet.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Personal protective equipment**

**Respiratory protection:**
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:**
Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

**Eye protection:**
Safety glasses.

**Skin and body protection:**
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures:**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Form: Liquid, clear, more or less viscous depending on the grade.
Colour: Yellow to clear.

Physical properties:
Boiling point: 204-205°C
Flashpoint: 98 °C
Vapour pressure: 1.5 mm Hg at 20°C
Density: 1.13-1.20

Section 10. STABILITY AND REACTIVITY

Stable in normal conditions of use during 1 year: keep in a dry, fresh and dark place.
Exothermic polymerization with amine, mercaptan and Lewis acids.
Keep away from heat.
Hazardous combustion or decomposition products: Acids, Aldehydes, Carbon monoxide-dioxide,
Phosphorous/antimony oxides, Hydrogen Fluoride Gas.

Section 11. TOXICITY HAZARDS

Toxicity hazards of each basic products cited in section 3.

Signs and symptoms of exposure:
Anaesthetic effect on the central nervous system characterized by a loss of sensation.
Preliminary excitement is the initial effect followed by relaxation stupor or sleep, nausea, dizziness, headache.
LD50 Dermal -guinea pig- > 5.000 mg/kg

Potential health effects:
Inhalation: may be harmful if inhaled. May cause respiratory tract irritation.
Skin: may be harmful if absorbed through skin. May cause skin irritation.
Eyes: causes eye irritation.
Ingestion: harmful if swallowed.
Target organs: central nervous system.

Section 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability):
No data available.

Ecotoxicity effects:
Solvent toxicity to fish: LC50 Leuciscus idus (Golden orfe) > 220 mg/l for 96 h

Further information on ecology:
No data available.

Section 13. DISPOSAL CONSIDERATIONS

Product
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Clean with a solvent (as acetone) before to put in the specific garbage.
Section 14. TRANSPORT INFORMATION

RID/ADR:
Not dangerous goods.

IMDG:
Not dangerous goods.

IATA:
Not dangerous goods.

Section 15. REGULATORY INFORMATION

Labelling according to EC Directives

Hazard symbols: Xn, Xi, N.
Harmful, irritant and dangerous for the environment.

R-phrase(s)
R20/22: Harmful by inhalation and if swallowed.
R36/37/38: Irritating to eyes, respiratory system and skin.
R43: May cause sensitization by skin contact.

S-phrase(s)
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36: Wear suitable protective clothing.

Section 16. OTHER INFORMATION

This data sheet completes the technical notices but does not supersede them. The information contained in it is grounded of the statement of our knowledge of the product concerned at the publishing date. This material safety Data sheet have been compiled from sources known to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty or representations is made as to the correctness or sufficiency of information. The use of these products must decide what measures are necessary to safely use these products, and to determine its environmental regulatory compliance obligations under applicable federal or state laws.

This is our propriety item.