



Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

SQ Series
SU-8 Epoxy Photoresist

Revision Date: 03/31/2025

Supplier:

KemLab Inc.
254 W Cummings Park
Woburn, MA 01801

For non-emergency information contact: 781-281-0174

Emergency telephone PERS-ER US/Canada: 1-800-633-8253
International: 1-801-629-0667

2. HAZARDS IDENTIFICATION

Hazard
Pictograms:



Signal Word:

Danger

Hazard Category:

Acute tox, oral Cat 4
Serious eye damage/eye irritation Cat 1
Specific target organ tox, single exp. Cat 3 (narcotic effects)
Sensitization, skin Cat 1
Skin corrosion/irritation Cat 2

Hazard
Statements:

H302: Harmful if swallowed
H318: Causes serious eye damage
H336: May cause drowsiness or dizziness
H317: May cause an allergic skin reaction
H315: Causes skin irritation

Precautionary
Statements:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P264: Wash thoroughly after handling
P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye protection/face protection

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P310: Immediately call a POISON CENTER or doctor/physician

**Hazards not
otherwise
classified:**

Not applicable, none known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Epoxy Resin	28906-96-9	> 40 - 75 %
Gamma Butyrolactone	96-48-0	< 20 - 60 %
Propylene Carbonate	108-32-7	< 5.0 %
Bis[4-(diphenylsulfonio)phenyl]sulfide bis(hexafluoroantimonate)	89452-37-9	< 5.0 %

4. FIRST AID MEASURES

Inhalation: Remove from exposure. If there is difficulty in breathing, give oxygen. Seek medical attention if symptoms persist.

Skin contact: Wash skin with water. Continue washing for at least 15 minutes. Obtain medical attention if blistering occurs or redness persists.

Eye contact: Immediately flush the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Ingestion: Wash out mouth with water. Have victim drink 1-3 glasses of water to dilute stomach contents. Induce vomiting if person is conscious. Immediate medical attention is required. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use water spray, foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.

Special protective equipment for fire-fighters: Wear full protective clothing and self-contained breathing apparatus.

Further information: Pressure may build up in closed containers with possible liberation of combustible vapors.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective clothing.
Wear respiratory protection.
Eliminate all ignition sources.

Environmental precautions

Prevent the material from entering drains or water courses.
Do not discharge directly to a water source.
Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Methods for cleaning up

Contain spills immediately with inert materials (e.g., sand, earth).
Transfer into suitable containers for recovery or disposal.
Finally flush area with plenty of water.

7. HANDLING AND STORAGE

Handling

Use local exhaust ventilation. Avoid contact with eyes, skin and clothing. Keep container tightly closed.

Storage

Storage conditions: Store in original container. Keep away from heat and sources of ignition.
Storage area should be: cool, dry, well ventilated, out of direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit(s)

Exposure limits are listed below, if they exist.

Eye protection: Goggles

Hand protection: Butyl rubber or nitrile gloves. Other chemical resistant gloves may be recommended by your safety professional.

Skin and body protection: Normal work PPE wear.

Respiratory protection: Respiratory protection if there is a risk of exposure to high vapor concentrations. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

Engineering measures: Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to pale yellow liquid
Form	liquid
Color	Clear to pale yellow
Odor	faint
Boiling point/boiling range	205 °C (400 °F)
Flash point	98 °C (208 °F)
Upper/Lower explosion limits	Upper: 16%(V), Lower: 1.4% (V)
Vapour pressure	1.5 mmHg at 20 °C (68 °F)
Relative vapour density	2.97 (air = 1) Heavier than air
Water solubility	Slightly soluble
Relative density	1.0 – 1.2
Evaporation rate	Slower than ether
VOC's	200 - 600 g/l

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous reactions	Stable under normal conditions
Conditions to avoid	Exposure to sunlight. Heat, flames and sparks. contact with incompatible materials
Materials to avoid	Strong: oxidizing agents, acids, bases, reducing agents
Hazardous decomposition products	Combustion will generate:, oxides of carbon, nitrogen oxides (NOx), phenols, Hydrogen fluoride, oxides of antimony, oxides of sulfur
Hazardous polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

Component: Gamma butyrolactone

Acute oral toxicity	LD50 rat 1540 mg/kg
Acute inhalation toxicity	LC50 rat 4 h at 5100 mg/l
Acute dermal toxicity	LD50 guinea pig >5,000 mg/kg

Mutagenicity

No component known to be mutagenic

Carcinogenicity

No component known to be carcinogenic

12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appears in this section when such data is available.

Ecotoxicity effects

Component: Gamma butyrolactone

Toxicity to fish

LC50 golden orfe - >220 mg/l - 96 h

Toxicity to aquatic

EC50 Daphnia magna 48 h

invertebrates

>500 mg/l

Biodegradability

Biotic/Aerobic – Exposure time 13d Result: 90% readily biodegradable

13. DISPOSAL CONSIDERATIONS

Environmental precautions: Prevent the material from entering drains or water courses.

Do not discharge directly to a water source.

Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Disposal

Dispose in accordance with all local, state (provincial), and federal regulations. Send waste to an approved waste disposal facility.

Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way.

14. TRANSPORT INFORMATION

Proper shipping name: Not Regulated

UN-Number: Not regulated

Hazard Class: Not regulated

Packing group: Not regulated

15. REGULATORY INFORMATION

Hazard Rating

	Health	Fire	Reactivity
NFPA	2	1	0

SARA TITLE III: Section 311/312 Categorizations

Acute Health hazard, Chronic health hazard

SARA TITLE III: Section 313 Information (40CFR372)

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

US. Toxic Substances Control Act (TSCA): All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California (Proposition 65)

This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

Prepared by: KemLab
Revision Date: 03/31/2025

Disclaimer: The information provided 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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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.