

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 03.04.2024

Version number 10

Revision: 03.04.2024

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### · 1.1 Product identifier

· Trade name: SU-8 3000 Series Resists

· Article number: Y311075, Y311074, Y311072, Y311060, Y311049, Y311035

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Sector of Use SU16 Manufacture of computer, electronic and optical products, electrical equipment

· Product category PC30 Photo-chemicals

· Application of the substance / the mixture Photoresist

#### · 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Manufacturer:

Kayaku Advanced Materials

200 Flanders Road

Westborough, MA 01581

Telephone: (617) 965-5511

Fax: (617) 965-5818

Importer:

A-Gas Electronic Materials

Unit 3, IO Centre

Swift Valley

Rugby, Warwickshire

CV21 1TW, UK

Tel: +44-0-1788-537535

Fax: +44-0-1788-535835

Website: [www.agasem.com](http://www.agasem.com)

Email: [customerservice.em@agas.com](mailto:customerservice.em@agas.com)

· Further information obtainable from:

Product Safety

Email: [productsafety@kayakuam.com](mailto:productsafety@kayakuam.com)

· 1.4 Emergency telephone number:

Kayaku Advanced Materials : 617-965-5511

Chemtrec USA Emergency : 800-424-9300 (24 hr)

Chemtrec International Emergency : 703-527-3887 (24 hr)

### SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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|               |   |
|---------------|---|
| Acute Tox. 4  | H332 Harmful if inhaled.                  |
| Skin Irrit. 2 | H315 Causes skin irritation.              |
| Eye Irrit. 2  | H319 Causes serious eye irritation.       |
| Skin Sens. 1  | H317 May cause an allergic skin reaction. |

### · 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

#### · Hazard pictograms



GHS02   GHS07   GHS09

#### · Signal word Warning

#### · Hazard-determining components of labelling:

Epoxy resin

Epoxy novolac polymer

Proprietary polyglycidyl ether

Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)

Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-, (OC-6-11)-hexafluoroantimonate (1-) (1:2)

#### · Hazard statements

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

#### · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use to extinguish: Alcohol resistant foam, Fire-extinguishing powder, Carbon dioxide.

P403+P235 Store in a well-ventilated place. Keep cool.

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Dispose of contents/container in accordance with local/regional/national/international regulations.

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**Additional information:**

13 % of the mixture consists of component(s) of unknown toxicity.

Contains 13 % of components with unknown hazards to the aquatic environment.

**2.3 Other hazards**

None of the ingredients are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties.

None of the ingredients are substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (or Commission Regulation (EU) 2018/605.

**Results of PBT and vPvB assessment**

 · **PBT:** Not applicable.

 · **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Chemical characterisation: Mixtures**

 · **Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

|                                    |   |        |
|------------------------------------|---|--------|
| CAS: 120-92-3<br>EINECS: 204-435-9 | Cyclopentanone<br>⚠ Flam. Liq. 3, H226; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319   | 15-65% |
|                                    | Epoxy resin<br>⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317  | 20-60% |
|                                    | Cycloaliphatic Epoxy Resin<br>⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319   | 5-20%  |
| CAS: 108-32-7<br>EINECS: 203-572-1 | Propylene carbonate<br>⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319  | 1-5%   |
|                                    | Proprietary polyglycidyl ether<br>⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317   | 1-5%   |
| CAS: 71449-78-0                    | Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-)<br>(1:1)<br>⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317       | 0.5-2% |
| CAS: 89452-37-9                    | Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-, (OC-6-11)-hexafluoroantimonate<br>(1-) (1:2)<br>⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317 | 0.5-2% |
|                                    | Epoxy Compound<br>⚠ Eye Dam. 1, H318  | 0.5-2% |

 · **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**
**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Immediately remove any clothing soiled by the product.

 · **After inhalation:** Supply fresh air and to be sure call for a doctor.

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**· After skin contact:***If skin irritation continues, consult a doctor.**Immediately wash with water and soap and rinse thoroughly.***· After eye contact:***Wash eyes immediately with a large amount of water or normal saline, occasionally lifting upper and lower eye lids until no evidence of chemical remains (about 20 minutes). Remove contact lenses if present and easy to remove. Seek immediate medical attention.***· After swallowing:** *Do not induce vomiting; call for medical help immediately.***· 4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.***· 4.3 Indication of any immediate medical attention and special treatment needed** *Treat symptomatically.***SECTION 5: Firefighting measures****· 5.1 Extinguishing media****· Suitable extinguishing agents:***Alcohol resistant foam**Fire-extinguishing powder**Carbon dioxide***· For safety reasons unsuitable extinguishing agents:** *Water with full jet***· 5.2 Special hazards arising from the substance or mixture** *No further relevant information available.***· 5.3 Advice for firefighters****· Protective equipment:** *Wear self-contained respiratory protective device.***SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures***Wear protective equipment. Keep unprotected persons away.**Ensure adequate ventilation**Keep away from ignition sources.***· 6.2 Environmental precautions:***Do not allow product to reach sewage system or any water course.**Inform respective authorities in case of seepage into water course or sewage system.**Do not allow to enter sewers/ surface or ground water.***· 6.3 Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Ensure adequate ventilation.**Do not flush with water or aqueous cleansing agents***· 6.4 Reference to other sections***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.***SECTION 7: Handling and storage****· 7.1 Precautions for safe handling***Ensure good ventilation/exhaust at the workplace.**Prevent formation of aerosols.**Keep away from heat and direct sunlight.*

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- **Information about fire - and explosion protection:**  
 Keep ignition sources away - Do not smoke.  
 Use explosion-proof apparatus / fittings and spark-proof tools.  
 Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and containers:**  
 Due to photo-sensitivity, store product in brown-glass or stainless steel receptacles.
- **Information about storage in one common storage facility:**  
 Do not store together with oxidising and acidic materials.  
 Do not store together with alkalis (caustic solutions).  
 Do not store together with amines.
- **Further information about storage conditions:**  
 Store in cool, dry conditions in well sealed containers.  
 Protect from heat and direct sunlight.  
 Store receptacle in a well ventilated area.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see section 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 Keep away from food and beverages.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Avoid contact with the eyes and skin.
- **Respiratory protection:**  
 In case of low exposure use cartridge respirator. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material**  
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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 · **Eye protection:**


Tightly sealed goggles

 · **Body protection:** Long-sleeved work clothes

### SECTION 9: Physical and chemical properties

 · **9.1 Information on basic physical and chemical properties**

 · **General Information**

 · **Appearance:**

|                  |                 |
|------------------|-----------------|
| Form:            | Liquid          |
| Colour:          | Light yellow    |
| Odour:           | Mild            |
| Odour threshold: | Not determined. |

 · **pH-value:** Not determined.

 · **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 130 °C

 · **Flash point:** 30 °C

 · **Flammability (solid, gas):** Not applicable.

 · **Auto-ignition temperature:** 430 °C

 · **Decomposition temperature:** Not determined.

 · **Ignition temperature:** Product is not selfigniting.

 · **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

 · **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

 · **Vapour pressure:** Not determined.

 · **Density:** See Other information

 · **Vapour density** Not determined.

 · **Evaporation rate** 1.6-2.3 (BuAc=1)

 · **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

 · **Partition coefficient: n-octanol/water:** Not determined.

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**· Viscosity:**
**Dynamic:**

Not determined.

**· 9.2 Other information**

| Name      | Number  | Sp. Grav. | Vol. (%by wt.) | VOC (g/L) |
|-----------|---------|-----------|----------------|-----------|
| SU-8 3002 | Y311035 | 1.032     | 65             | 675       |
| SU-8 3005 | Y311049 | 1.074     | 50             | 530       |
| SU-8 3010 | Y311060 | 1.105     | 39             | 425       |
| SU-8 3025 | Y311072 | 1.140     | 27             | 305       |
| SU-8 3035 | Y311074 | 1.146     | 25             | 285       |
| SU-8 3050 | Y311075 | 1.150     | 23             | 265       |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Exothermic polymerisation.
- **10.4 Conditions to avoid**  
Heat, flames and sparks. Extremes of temperature and direct sunlight.  
Contact with incompatible materials.
- **10.5 Incompatible materials:** Strong Oxidizing Agents, Strong Bases, Strong Acids, Amines
- **10.6 Hazardous decomposition products:**  
Carbon monoxide  
Carbon dioxide  
Danger of forming toxic pyrolysis products.  
Corrosive gases/vapours

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**  
Harmful if inhaled.

**· LD/LC50 values relevant for classification:**
**Epoxy resin**

|            |      |                      |
|------------|------|----------------------|
| Oral       | LD50 | >2000 mg/kg (Rat)    |
| Dermal     | LD50 | >2000 mg/kg (rabbit) |
| Inhalative | LC50 | >5 mg/L (Rat)        |

**Epoxy Compound**

|            |          |                  |
|------------|----------|------------------|
| Oral       | LD50     | 8030 mg/kg (Rat) |
| Dermal     | LD50     | 4248 mg/kg (Rat) |
| Inhalative | LC50/4 h | > 5.3 mg/l (Rat) |

**120-92-3 Cyclopentanone**

|            |          |                      |
|------------|----------|----------------------|
| Oral       | LD50     | 1820 mg/kg (Rat)     |
| Dermal     | LD50     | >2000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 19.5 mg/l (Rat)      |

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**Proprietary polyglycidyl ether**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | >2000 mg/kg (Rat) |
|------|------|-------------------|

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

 · **12.1 Toxicity**

 · **Aquatic toxicity:**
**Epoxy resin**

|                 |   |
|-----------------|---|
| 100<LC/EC/IC 50 | ≤1000 mg/l (algae)<br>≤1000 mg/l (fish)<br>≤1000 mg/l (invertebrates) |
|-----------------|---|

**89452-37-9 Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-, (OC-6-11)-hexafluoroantimonate (1-) (1:2)**

|            |                     |
|------------|---------------------|
| LC50/24 h  | 4.4 mg/l (daphnia)  |
| LC50/48 hr | 0.68 mg/L (daphnia) |

**71449-78-0 Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)**

|            |                     |
|------------|---------------------|
| LC50/24 h  | 4.4 mg/l (daphnia)  |
| LC50/48 hr | 0.68 mg/L (daphnia) |

**Epoxy Compound**

|           |  |
|-----------|--|
| EC50/48 h | 30 mg/l (daphnia magna)                          |
| EC50/72 h | 255 mg/l (Desmodesmus subscipatus (green algae)) |
| LC50/96 h | 55 mg/l (Cyprinus carpio (common carp))          |

**120-92-3 Cyclopentanone**

|            |   |
|------------|---|
| EC50/48 h  | 3600 mg/l (Ceriodaphnia dubia (water flea)) |
|            | 100 mg/l (daphnia magna)                    |
| EC50/72 h  | >100 mg/l (scenedesmus subspicatus)         |
| LC50/48 hr | 2950 mg/L (golden orfe)                     |
| LC50/96 h  | >100 mg/l (fish)                            |

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

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- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
 Also poisonous for fish and plankton in water bodies.  
 Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |  |
|---|--|
| · <b>14.1 UN-Number</b><br>· <b>ADR, IMDG, IATA</b>   | UN1866   |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, IATA</b><br>· <b>IMDG</b>  | RESIN SOLUTION<br>RESIN SOLUTION (Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1), Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-, (OC-6-11)-hexafluoroantimonate(1-) (1:2)], MARINE POLLUTANT |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, IMDG, IATA</b><br><div style="text-align: center; margin: 10px 0;">  </div> · <b>Class</b><br>· <b>Label</b> | 3 Flammable liquids.<br>3  |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>   | III  |
| · <b>14.5 Environmental hazards:</b><br>· <b>Marine pollutant:</b>  | Product contains environmentally hazardous substances:<br>Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)<br>Yes  |

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- |  |  |
|--|--|
| · <b>14.6 Special precautions for user</b><br>· <b>Hazard identification number (Kemler code):</b><br>· <b>EMS Number:</b><br>· <b>Stowage Category</b>      | Warning: Flammable liquids.<br>30<br>F-E, S-E<br>A |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>   | Not applicable.                                    |
| · <b>Transport/Additional information:</b>   |  |
| · <b>ADR</b><br>· <b>Limited quantities (LQ)</b><br>· <b>Excepted quantities (EQ)</b><br><br>· <b>Transport category</b><br>· <b>Tunnel restriction code</b> |  |
| · <b>IMDG</b><br>· <b>Limited quantities (LQ)</b><br>· <b>Excepted quantities (EQ)</b>   |  |
| · <b>UN "Model Regulation":</b>  |  |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 No further relevant information available.
- **Poisons Act**
- |   |                                    |
|---|------------------------------------|
| <b>· Regulated explosives precursors</b>  | None of the ingredients is listed. |
| <b>· Regulated poisons</b>                | None of the ingredients is listed. |
| <b>· Reportable explosives precursors</b> | None of the ingredients is listed. |
| <b>· Reportable poisons</b>               | None of the ingredients is listed. |
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
 H226 Flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.

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*H318 Causes serious eye damage.**H319 Causes serious eye irritation.**H400 Very toxic to aquatic life.**H410 Very toxic to aquatic life with long lasting effects.**· Department issuing SDS: Product safety department**· Contact: Tom Cole, EHS Manager (tcole@kayakuam.com)**· Abbreviations and acronyms:**RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)**ICAO: International Civil Aviation Organisation**ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 3: Flammable liquids – Category 3**Acute Tox. 4: Acute toxicity – Category 4**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1: Skin sensitisation – Category 1**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

GB