

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 14.01.2022

Version number 8

Revision: 14.01.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** SU-8 2000 Series Resists**Article number:**

Y111004, Y111007, Y111014, Y111022, Y111029, Y111045, Y111053, Y111058, Y111064, Y111069, Y111070, Y111072, Y111074, Y111075

**1.2 Relevant identified uses of the substance or mixture and uses advised against****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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<i>Skin Irrit. 2</i>	<i>H315 Causes skin irritation.</i>
<i>Eye Irrit. 2</i>	<i>H319 Causes serious eye irritation.</i>
<i>Skin Sens. 1</i>	<i>H317 May cause an allergic skin reaction.</i>

### · 2.2 Label elements

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

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

#### · Hazard pictograms



GHS02   GHS07   GHS09

#### · Signal word *Warning*

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

*Epoxy resin*

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

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

#### · Hazard statements

*H226 Flammable liquid and vapour.*

*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.*

*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.*

*P501      Dispose of contents/container in accordance with local/regional/national/international regulations.*

### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

· **PBT:** Not applicable.

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 · **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

 · **3.2 Chemical characterisation: Mixtures**

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

 · **Dangerous components:**

	Epoxy resin ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	3-75%
CAS: 120-92-3 EINECS: 204-435-9	Cyclopentanone ⚠ Flam. Liq. 3, H226; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	13-96%
CAS: 71449-78-0	Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	.25-2.5%
CAS: 108-32-7 EINECS: 203-572-1	Propylene carbonate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.3-5%
CAS: 89452-37-9	Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-, (OC-6-11)-hexafluoroantimonate(1-) (1:2) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	.25-2.5%

 · **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:** Immediately remove any clothing soiled by the product.

 · **After inhalation:** Supply fresh air; consult doctor in case of complaints.

 · **After skin contact:** 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:** If symptoms persist consult doctor.

 · **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.

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- **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).  
Dispose contaminated material as waste according to item 13.  
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.
- **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.  
Store in a cool location.
- **Information about storage in one common storage facility:**  
Do not store together with alkalis (caustic solutions).  
Do not store together with oxidising and acidic materials.
- **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.

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### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 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.
  - **Eye protection:**



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Colour:	Clear to light yellow
Odour:	Sweetish
Odour threshold:	Not determined.
- **pH-value:** Not determined.
- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	130 °C

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· <b>Flash point:</b>	30 °C																																																																											
· <b>Flammability (solid, gas):</b>	Not applicable.																																																																											
· <b>Ignition temperature:</b>	430 °C																																																																											
· <b>Decomposition temperature:</b>	Not determined.																																																																											
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.																																																																											
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.																																																																											
· <b>Explosion limits:</b> <b>Lower:</b> <b>Upper:</b>	Not determined. Not determined.																																																																											
· <b>Vapour pressure:</b>	Not determined.																																																																											
· <b>Density:</b> · <b>Relative density</b> · <b>Vapour density</b> · <b>Evaporation rate</b>	See Table 1 Other Information below Not determined. Not determined. Not determined.																																																																											
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.																																																																											
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.																																																																											
· <b>Viscosity:</b> <b>Dynamic:</b> <b>Kinematic:</b>	Not determined. Not determined.																																																																											
· <b>9.2 Other information</b>	<table><tr><td>Name</td><td>Number</td><td>Sp. Grav.</td><td>Vol.(%by wt.)</td><td>VOC (g/L)</td></tr><tr><td>SU-8 2000.1</td><td>Y111004</td><td>1.00</td><td>94-98</td><td>960</td></tr><tr><td>SU-8 2000.2</td><td>Y111007</td><td>1.00</td><td>90-95</td><td>930</td></tr><tr><td>SU-8 2000.5</td><td>Y111014</td><td>1.07</td><td>85-90</td><td>920</td></tr><tr><td>SU-8 2001</td><td>Y111022</td><td>1.100</td><td>80-85</td><td>860</td></tr><tr><td>SU-8 2002</td><td>Y111029</td><td>1.123</td><td>70-75</td><td>800</td></tr><tr><td>SU-8 2005</td><td>Y111045</td><td>1.164</td><td>50-55</td><td>640</td></tr><tr><td>SU-8 2007</td><td>Y111053</td><td>1.175</td><td>45-50</td><td>550</td></tr><tr><td>SU-8 2010</td><td>Y111058</td><td>1.187</td><td>40-45</td><td>500</td></tr><tr><td>SU-8 2015</td><td>Y111064</td><td>1.200</td><td>35-40</td><td>430</td></tr><tr><td>SU-8 2025</td><td>Y111069</td><td>1.219</td><td>30-35</td><td>380</td></tr><tr><td>SU-8 2035</td><td>Y111070</td><td>1.227</td><td>20-30</td><td>370</td></tr><tr><td>SU-8 2050</td><td>Y111072</td><td>1.233</td><td>20-30</td><td>345</td></tr><tr><td>SU-8 2075</td><td>Y111074</td><td>1.236</td><td>20-30</td><td>320</td></tr><tr><td>SU-8 2100</td><td>Y111075</td><td>1.237</td><td>20-30</td><td>310</td></tr></table>	Name	Number	Sp. Grav.	Vol.(%by wt.)	VOC (g/L)	SU-8 2000.1	Y111004	1.00	94-98	960	SU-8 2000.2	Y111007	1.00	90-95	930	SU-8 2000.5	Y111014	1.07	85-90	920	SU-8 2001	Y111022	1.100	80-85	860	SU-8 2002	Y111029	1.123	70-75	800	SU-8 2005	Y111045	1.164	50-55	640	SU-8 2007	Y111053	1.175	45-50	550	SU-8 2010	Y111058	1.187	40-45	500	SU-8 2015	Y111064	1.200	35-40	430	SU-8 2025	Y111069	1.219	30-35	380	SU-8 2035	Y111070	1.227	20-30	370	SU-8 2050	Y111072	1.233	20-30	345	SU-8 2075	Y111074	1.236	20-30	320	SU-8 2100	Y111075	1.237	20-30	310
Name	Number	Sp. Grav.	Vol.(%by wt.)	VOC (g/L)																																																																								
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### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Exothermic polymerisation.

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- **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 Acids, Strong Bases
- **10.6 Hazardous decomposition products:**  
Carbon monoxide  
Corrosive gases/vapours  
Danger of forming toxic pyrolysis products.  
Antimony oxide

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · **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)

##### **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)

##### **108-32-7 Propylene carbonate**

Oral	LD50	>29000 mg/kg (Rat)
Dermal	LD50	>20,000 mg/kg (rabbit)

- **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.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

##### Epoxy resin

100<LC/EC/IC 50	≤1000 mg/l (algae)
	≤1000 mg/l (fish)
	≤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)

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.

##### Ecotoxicological effects:

Remark: Toxic for fish

##### Additional ecological information:

##### General notes:

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

#### 14.1 UN-Number

##### ADR, IMDG, IATA

UN1866

#### 14.2 UN proper shipping name

##### ADR, IATA

##### IMDG

RESIN SOLUTION

RESIN SOLUTION (Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1), Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-, (OC-6-11)-

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hexafluoroantimonate (1-) (1:2)), MARINE POLLUTANT	
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	Yes
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E,S-D
· Stowage Category	A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN1866, RESIN SOLUTION, 3, III

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
No further relevant information available.
- 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.

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**· Relevant phrases**

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
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  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
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

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