

Safety Data Sheet

acc. to OSHA HCS

Printing date 11/19/2025

Reviewed on 11/19/2025

1 Identification

- **Product identifier**
- **Trade name:** SU-8 TF 6000 Series Resists
- **Product number:** Y143007, Y143010, Y143015, Y143027, Y143037, Y143051, Y143061
- **Application of the substance / the mixture** Photoresist
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Kayaku Advanced Materials, Inc.
200 Flanders Road
Westborough, MA 01581
USA
Tel: (617) 965-5511
Fax: (617) 965-5818
- **Information department:**
Product Safety
Email: productsafety@kayakuam.com
- **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)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 3

H226 Flammable liquid and vapor.



GHS05 Corrosion

Eye Damage 1

H318 Causes serious eye damage.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

- **Label elements**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02

GHS05

GHS07

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Trade name: SU-8 TF 6000 Series Resists

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· Signal word Danger

· Hazard-determining components of labeling:

Proprietary Epoxy Resin

Cyclopentanone

gamma-Butyrolactone

· Hazard statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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 person to fresh air and keep 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.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 3

Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *3

Fire = 3

Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

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· Dangerous components:

120-92-3	Cyclopentanone Flammable Liquids 3, H226; Skin Irritation 2, H315; Eye Irritation 2A, H319	20-50%
	Epoxy resin Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	5-60%
108-65-6	I-Methoxy-2-propanol acetate Flammable Liquids 3, H226; Specific Target Organ Toxicity - Single Exposure 3, H336	10-40%
96-48-0	gamma-Butyrolactone Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 3, H336	1-10%

· Additional Components:

121239-75-6	Iodonium, [4-octyloxy)phenyl-, (OC-6-11)-hexafluoroantimonate(1-) Aquatic Chronic 2, H411; Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332	0.2-3%
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4 First-aid measures

· Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

· 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: Do not induce vomiting; immediately call for medical help.

· Information for doctor:

· Most important symptoms and effects, both acute and delayed No further relevant information available.

· Indication of any immediate medical attention and special treatment needed Treat symptomatically.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

Alcohol resistant foam

Fire-extinguishing powder

Carbon dioxide

· For safety reasons unsuitable extinguishing agents: Water with full jet

· Special hazards arising from the substance or mixture

Containers may explode due to pressure increase when container is exposed to extreme heat. Vapors may travel a considerable distance to a source of ignition and flash back along vapor trail.

· Advice for firefighters

· Protective equipment: Wear SCBA.

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6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

· Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Do not allow product to reach sewage system or any drains.

Inform respective authorities in case of seepage into water course or sewage system.

· 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

· 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.

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaust at the workplace.

Prevent formation of aerosols.

Keep receptacles tightly sealed.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and containers: Store in a cool location.

· Information about storage in one common storage facility:

Do not store together with oxidizing and acidic materials.

Do not store together with amines.

· Further information about storage conditions:

Keep container well-sealed in cool, dry location.

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

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At this time, the other constituents have no known exposure limits.

108-65-6 1-Methoxy-2-propanol acetate

WEEL Long-term value: 50 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **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 equipment:**

In case of low exposure, use cartridge respirator. In case of intensive or longer exposure, use SCBA.

· **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** Contact glove manufacture for break-through time.

· **Eye protection:**



Tightly sealed goggles

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

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:

Liquid

Color:

Clear to light yellow

· **Odor:**

Sweet

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 130 °C (266 °F)

· **Flash point:**

30 °C (86 °F)

· **Flammability:**

Not applicable.

· **Auto igniting:**

315 °C (599 °F)

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· Decomposition temperature:	Not determined.																																								
· Ignition temperature:	Product is not selfigniting.																																								
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.																																								
· Explosion limits:																																									
Lower:	1.3 Vol %																																								
Upper:	10.8 Vol %																																								
· Vapor pressure at 20 °C (68 °F):	11 hPa (8.3 mm Hg)																																								
· Density:	See Other information																																								
· Relative density	Not determined.																																								
· Vapor density	Not determined.																																								
· Evaporation rate	Not determined.																																								
· Solubility in / Miscibility with Water:	Partly miscible.																																								
· Partition coefficient (n-octanol/water):	Not determined.																																								
· Viscosity:																																									
Dynamic:	Not determined.																																								
Kinematic:	Not determined.																																								
· Other information																																									
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 20%;">Name</th> <th style="text-align: left; width: 20%;">Number</th> <th style="text-align: left; width: 20%;">Sp. Grav.</th> <th style="text-align: left; width: 20%;">VOC(%by wt.)</th> <th style="text-align: left; width: 20%;">VOC (g/L)</th> </tr> </thead> <tbody> <tr> <td>SU-8 TF 6000.1</td> <td>Y143007</td> <td>0.980</td> <td>90-95</td> <td>910</td> </tr> <tr> <td>SU-8 TF 6000.2</td> <td>Y143010</td> <td>0.988</td> <td>85-90</td> <td>890</td> </tr> <tr> <td>SU-8 TF 6000.5</td> <td>Y143015</td> <td>0.999</td> <td>80-85</td> <td>845</td> </tr> <tr> <td>SU-8 TF 6001</td> <td>Y143027</td> <td>1.025</td> <td>70-75</td> <td>755</td> </tr> <tr> <td>SU-8 TF 6002</td> <td>Y143037</td> <td>1.050</td> <td>60-65</td> <td>665</td> </tr> <tr> <td>SU-8 TF 6005</td> <td>Y143051</td> <td>1.085</td> <td>45-50</td> <td>530</td> </tr> <tr> <td>SU-8 TF 6010</td> <td>Y143061</td> <td>1.150</td> <td>35-40</td> <td>430</td> </tr> </tbody> </table>	Name	Number	Sp. Grav.	VOC(%by wt.)	VOC (g/L)	SU-8 TF 6000.1	Y143007	0.980	90-95	910	SU-8 TF 6000.2	Y143010	0.988	85-90	890	SU-8 TF 6000.5	Y143015	0.999	80-85	845	SU-8 TF 6001	Y143027	1.025	70-75	755	SU-8 TF 6002	Y143037	1.050	60-65	665	SU-8 TF 6005	Y143051	1.085	45-50	530	SU-8 TF 6010	Y143061	1.150	35-40	430
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10 Stability and reactivity

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

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11 Toxicological information

 · **Information on toxicological effects**

 · **Acute toxicity:**

 · **Primary irritant effect:**

 · **on the skin:** Irritant to skin and mucous membranes.

 · **on the eye:** Irritating effect.

 · **Sensitization:** Sensitization possible through skin contact.

 · **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
 Irritant

 · **Carcinogenic categories**

 · **IARC (International Agency for Research on Cancer)**

96-48-0 gamma-Butyrolactone

3

 · **NTP (National Toxicology Program)**

None of the ingredients are listed.

 · **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

12 Ecological information

 · **Toxicity**

 · **Aquatic toxicity:** No further relevant information available.

 · **Persistence and degradability** No further relevant information available.

 · **Behavior in environmental systems:**

 · **Bioaccumulative potential** No further relevant information available.

 · **Mobility in soil** No further relevant information available.

 · **Additional ecological information:**

 · **General notes:**

Water hazard class 1 (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.

 · **Results of PBT and vPvB assessment**

 · **PBT:** Not applicable.

 · **vPvB:** Not applicable.

 · **Other adverse effects** No further relevant information available.

13 Disposal considerations

 · **Waste treatment methods**

 · **Recommendation:**

Must not be disposed of as regular garbage/trash. Do not allow product to reach sewage system.

Disposal must be made in accordance with Federal, State, and Local regulations.

 · **Uncleaned packagings:**

 · **Recommendation:** Disposal must be made in accordance with Federal, State, and Local regulations.

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14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	UN1866
· UN proper shipping name	
· DOT, ADR	Resin solution
· IMDG, IATA	RESIN SOLUTION
· Transport hazard class(es)	
· DOT	
	
· Class	3 Flammable liquids
· Label	3
· ADR, IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E,S-E
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	UN1866, Resin solution, 3, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):** All ingredients are listed or comply with TSCA regulations.

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· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients are listed.

· TLV (Threshold Limit Value)

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

· Massachusetts State Right To Know List

120-92-3 Cyclopentanone

· New Jersey State Right To Know List

120-92-3 Cyclopentanone

· Pennsylvania Hazardous Substances List

120-92-3 Cyclopentanone

· California SCAQMD Rule 443.1 VOC's: No information available.

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS02



GHS05



GHS07

· Signal word Danger

· Hazard-determining components of labeling:

Proprietary Epoxy Resin

Cyclopentanone

gamma-Butyrolactone

· Hazard statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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- 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 person to fresh air and keep 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.*

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

- **Department issuing SDS:** Product safety department
· **Contact:** Tom Cole, EHS Manager (tcole@kayakuam.com)

· **Revision History:**

The manufacturer's information in Section 1, the product hazard information in Section 2 and the component hazard information in Section 3 have been updated.

- **Date of preparation / last revision** 11/19/2025 / 8

· **Abbreviations and acronyms:**

- 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
DOT: US Department of Transportation
IATA: International Air Transport Association
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Liquids 3: Flammable liquids – Category 3
Acute Toxicity - Oral 4: Acute toxicity – Category 4
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Skin 1: Skin sensitisation – Category 1
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

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