

Printing date 22.07.2024

Version number 8

Revision: 22.07.2024

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

· 1.1 Product identifier

· Trade name: SU-8 TF 6000 Series Resists

· Article number: Y143007, Y143010, Y143015, Y143027, Y143037, Y143051, Y143061

• 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 ITW, UK Tel: +44-0-1788-537535 Fax: +44-0-1788-535835 Website: www.agasem.com Email: customerservice.em@agas.com

 Further information obtainable from: Product Safety
 Email: 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.

Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

(Contd. on page 2)

<sup>-</sup> GB

GB



# Safety data sheet according to UK REACH

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Trade name: SU-8 TF 6000 Series Resists

smoking.P261Avoid breathing dust/fume/gas/mist/vapours/spray.P280Wear protective gloves/protective clothing/eye protection/face protection/hearing protectionP301+P310IF SWALLOWED: Immediately call a POISON CENTER/ doctor.P302+P352IF ON SKIN: Wash with plenty of soap and water.P304+P341IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a post comfortable for breathing.P305+P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense present and easy to do. Continue rinsing.P333+P313If skin irritation or rash occurs: Get medical advice/attention.P370+P378In case of fire: Use to extinguish: Alcohol resistant foam, Fire-extinguishing powder, Ca dioxide.P403+P235Store in a well-ventilated place. Keep cool.P501Dispose of contents/container in accordance with local/regional/national/internation		(Contd. of pa
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· 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 compone	ents:	
CAS: 120-92-3	Cyclopentanone	20-50%
EINECS: 204-435-9	🚸 Flam. Liq. 3, H226; 🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 108-65-6	1-Methoxy-2-propanol acetate	10-40%
EINECS: 203-603-9	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	
	Proprietary Epoxy Resin	5-60%
	STOT RE 2, H373; 🕂 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 4, H413	
CAS: 96-48-0	gamma-Butyrolactone	1-10%
EINECS: 202-509-5	📀 Eye Dam. 1, H318; 🐠 Acute Tox. 4, H302; STOT SE 3, H336	
CAS: 121239-75-6	Iodonium, [4-octyloxy)phenyl-,(OC-6-11)-hexafluoroantimonate(1-)	0.2-3%
	Aquatic Chronic 2, H411; 🚸 Acute Tox. 4, H302; Acute Tox. 4, H332	
· Additional informat	ion: 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. 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; 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.

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#### **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

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.

• 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 to enter sewers/ surface or ground water. 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. • 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 receptacles tightly sealed.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Use explosion-proof apparatus / fittings and spark-proof tools.
- · 7.2 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 oxidising and acidic materials.
- Do not store together with amines.

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• Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

• 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:

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

WEL Short-term value: 548 mg/m<sup>3</sup>, 100 ppm Long-term value: 274 mg/m<sup>3</sup>, 50 ppm Sk

• 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

· Body protection: Long-sleeved work clothes

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9.1 Information on basic physical and c	hemical properties				
General Information					
Appearance: Form:	Liquid				
Colour:	<i>Clear to light yell</i>	low			
Odour:	Sweetish				
Odour threshold:	Not determined.				
pH-value:	Not determined.				
Change in condition					
Melting point/freezing point:	Undetermined.				
Initial boiling point and boiling range	2: 130 ℃				
Flash point:	30 °C				
Flammability (solid, gas):	Not applicable.				
Auto-ignition temperature:	315 °C				
Decomposition temperature:	Not determined.				
Ignition temperature:	Product is not selfigniting.				
Explosive properties:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.				
Explosion limits:					
Lower:	1.3 Vol %				
Upper:	10.8 Vol %				
Vapour pressure at 20 °C:	11 hPa				
Density:	See Other inform	ation			
Relative density	Not determined.				
Vapour 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.				
9.2 Other information	Name	Number		VOC(%by wt.)	VOC (g/L
	SU-8 TF 6000.1	Y143007	0.980	80-85	830
	SU-8 TF 6000.2	Y143010	0.988	80-85	810
	SU-8 TF 6000.5	Y143015	0.999	75-80	770
	SU-8 TF 6001	Y143027	1.025	65-70	680
	SU-8 TF 6002	Y143037	1.050	55-60	600
	SU-8 TF 6005	Y143051	1.085	40-45	480

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#### 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 and carbon dioxide
- Danger of forming toxic pyrolysis products.
- Corrosive gases/vapours

### SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation. • Serious eye damage/irritation
- Causes serious eye damage.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- Additional toxicological information:
- · CMR effects (carcinogenity, 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
- May cause drowsiness or dizziness.
- 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: No further relevant information available.
- 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.
- 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.

- 12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.

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ADVANCED MATERIALS

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· 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.* 

14.1 UN-Number		
ADR, IMDG, IATA	UN1866	
14.2 UN proper shipping name		
ADR, IMDG, IATA	RESIN SOLUTION	
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:	No	
14.6 Special precautions for user	Warning: Flammable liquids.	
Hazard identification number (Kemler code):	30	
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>	
14.7 Transport in bulk according to Annex II of	of the second	
Marpol and the IBC Code	Not applicable.	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	5L	
Transport category	3	
Tunnel restriction code	D/E	
UN "Model Regulation":	UN1866, RESIN SOLUTION, 3, III	

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#### **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.

#### · Relevant phrases

H226 Flammable liquid and vapour. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. · Department issuing SDS: Product safety department • *Contact:* Tom Cole, EHS Manager (tcole@kayakuam.com) · 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 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) 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 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4