

*Printing date 09/13/2022* 

# 1 Identification

#### · Product identifier

• Trade name: XP MicroSpray SU-8 Photoresist Spray

- **Product number:** MSS0014
- 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
  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 Chemtrec International Emergency : 703-527-3887

# 2 Hazard(s) identification

Flammable Aerosols 1	H222 Extremely flammable aerosol.
GHS07	
Acute Toxicity - Inhalation 4	H332 Harmful if inhaled.
Skin Irrititation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.
Aquatic Acute 3	H402 Harmful to aquatic life.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.
Label elements GHS label elements The product is classified and la Hazard pictograms	abeled according to the Globally Harmonized System (GHS)

· Signal word Danger

Reviewed on 09/13/2022

(Contd. on page 2)

<sup>-</sup>US



Printing date 09/13/2022

Reviewed on 09/13/2022

Trade name: XP MicroSpray SU-8 Photoresist Spray

	(Contd. of page 1)
· Hazard-determ	ining components of labeling:
Epoxy resin	and components of meeting.
1-Methoxy-2-pr	ropanol acetate
v 1	enyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)
	di-4,1-phenylene) bis[diphenyl-,(OC-6-11)-hexafluoroantimonate (1-) (1:2)
· Hazard stateme	
-	z flammable aerosol.
H332 Harmful	
H315 Causes sk	
H319 Causes se	prious eye irritation.
	e an allergic skin reaction.
	e drowsiness or dizziness.
H402 Harmful 1	
	to aquatic life with long lasting effects.
· Precautionary s	
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapors/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 person to fresh air and keep comfortable for breathing.
P305+P351+P	338 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 alcohol resistant foam to extinguish.
P370+P378	In case of fire: Use fire-extinguishing powder to extinguish.
P370+P378	In case of fire: Use carbon dioxide to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Classification s	
· NFPA ratings (	scale 0 - 4)
	Iealth = 2
	ire = 4
$\mathbf{Z}$	eactivity = 2
· HMIS-ratings (	(scale 0 - 4)
HEALTH 2	Health = 2
	Fire = 4
-1 II XL 4	
REACTIVITY 2	Reactivity = 2

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

(Contd. on page 3)

US



*Printing date 09/13/2022* 

Reviewed on 09/13/2022

Trade name: XP MicroSpray SU-8 Photoresist Spray

(Contd. of page 2)

· vPvB: Not applicable.

### 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

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

· Dangerous	components:	
108-65-0	5 1-Methoxy-2-propanol acetate	50-70%
	Flammable Liquids 3, H226; Specific Target Organ Toxicity - Single Exposure 3, H336	
	Epoxy resin	20-30%
	Skin Irrititation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
115-10-0	5 dimethyl ether	10-25%
	🐼 Flammable Gases 1, H220; 🤣 Gases under Pressure - Compressed gas, H280	
108-32-	7 Propylene carbonate	1-5%
	Skin Irrititation 2, H315; Eye Irritation 2A, H319	
89452-37-	9 Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-,(OC-6-11)-hexafluoroantimonate (1-) (1: 2)	<1%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🚸 Sensitization - Skin 1, H317	
71449-78-0	Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1) Aquatic Acute I, H400; Aquatic Chronic I, H410; 🚸 Sensitization - Skin I, H317	<1%

## 4 First-aid measures

· 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.

• 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.

- In cases of frost bites, rinse with plenty of water. Do not remove clothing.
- 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 unless instructed to do so by a physician. Wash out mouth with water and keep person at rest. Seek immediate medical attention.

- 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.

(Contd. on page 4)



Printing date 09/13/2022

Reviewed on 09/13/2022

#### Trade name: XP MicroSpray SU-8 Photoresist Spray

(Contd. of page 3)

#### 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Carbon dioxide Fire-extinguishing powder Alcohol resistant foam
- 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.

### 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:
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
   Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to Section 13. 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 interior ventilation, especially at floor level. (Fumes are heavier than air). Ensure good ventilation/exhaust at the workplace.*
- Keep away from heat and direct sunlight.
- Open and handle container with care.
- Information about protection against explosions and fires: Do not spray on a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Use explosion-proof apparatus / fittings and spark-proof tools.
  Protect against electrostatic charges.
  Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

(Contd. on page 5)

US



Printing date 09/13/2022

Reviewed on 09/13/2022

Trade name: XP MicroSpray SU-8 Photoresist Spray

(Contd. of page 4)

- Conditions for safe storage, including any incompatibilities • Storage:
- *Requirements to be met by storerooms and containers:* Store in a cool location. Observe official regulations on storing packagings with pressurized containers.
- Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions). Do not store together with oxidizing and acidic materials.
- · Further information about storage conditions:
- Keep container well-sealed in cool, dry location.
- Protect from heat and direct sunlight.
- Store receptacle in a well ventilated area.
- 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 item 7.

III       III         III       III         III       III         WEEL       III         III       III         III       III         IIII       III         IIIII       IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	108-65-6 1-Meth	noxy-2-propanol acetate
WEEL         1000 ppm           89452-37-9 Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-,(OC-6-11)-hexafluoroantimonate (1-) (1:2)           ACGIH TLV TWA         0.5 mg/m <sup>3</sup> NIOSH IDLH         50 mg/m <sup>3</sup> OSHA PEL         0.5 mg/m <sup>3</sup> 71449-78-0 Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)           ACGIH TLV TWA:         0.5 mg/m <sup>3</sup> VIOSH IDLH         50 mg/m <sup>3</sup> OSHA PEL         0.5 mg/m <sup>3</sup>	WEEL	50 ppm
39452-37-9 Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-,(OC-6-11)-hexafluoroantimonate (1-) (1:2)         ACGIH TLV TWA       0.5 mg/m <sup>3</sup> NIOSH IDLH       50 mg/m <sup>3</sup> OSHA PEL       0.5 mg/m <sup>3</sup> 71449-78-0 Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)         ACGIH TLV TWA:       0.5 mg/m <sup>3</sup> NIOSH IDLH       50 mg/m <sup>3</sup> OSHA PEL       0.5 mg/m <sup>3</sup> OSHA PEL       0.5 mg/m <sup>3</sup>	115-10-6 dimeth	yl ether
ACGIH TLV TWA       0.5 mg/m³         NIOSH IDLH       50 mg/m³         OSHA PEL       0.5 mg/m³         71449-78-0 Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)         ACGIH TLV TWA:       0.5 mg/m³         NIOSH IDLH       50 mg/m³         OSHA PEL       0.5 mg/m³         OSHA PEL       0.5 mg/m³	WEEL	1000 ppm
NIOSH IDLH         50 mg/m³           OSHA PEL         0.5 mg/m³           71449-78-0 Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)           ACGIH TLV TWA: 0.5 mg/m³           NIOSH IDLH         50 mg/m³           OSHA PEL         0.5 mg/m³	89452-37-9 Sulf	onium, (thiodi-4,1-phenylene) bis[diphenyl-,(OC-6-11)-hexafluoroantimonate (1-) (1:2)
OSHA PEL         0.5 mg/m³           71449-78-0 Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)           ACGIH TLV TWA: 0.5 mg/m³           NIOSH IDLH         50 mg/m³           OSHA PEL         0.5 mg/m³	ACGIH TLV TW	$IA \mid 0.5 \text{ mg/m}^3$
71449-78-0 Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)         ACGIH TLV TWA: 0.5 mg/m³         NIOSH IDLH       50 mg/m³         OSHA PEL       0.5 mg/m³	NIOSH IDLH	$50 \text{ mg/m}^3$
ACGIH TLV TWA: 0.5 mg/m³NIOSH IDLH50 mg/m³OSHA PEL0.5 mg/m³	OSHA PEL	$0.5 \ mg/m^3$
NIOSH IDLH 50 mg/m <sup>3</sup> OSHA PEL 0.5 mg/m <sup>3</sup>	71449-78-0 Sulf	onium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)
$OSHA PEL \qquad 0.5 mg/m^3$		ACGIH TLV TWA: 0.5 mg/m <sup>3</sup>
	NIOSH IDLH	$50 \text{ mg/m}^3$
Additional information. The lists that were valid during the creation were used as basis	OSHA PEL	$0.5 \ mg/m^3$
<b>Lumional information.</b> The lists that were valid daring the creation were used as basis.	Additional infor	mation: The lists that were valid during the creation were used as basis.
Personal protective equipment:		
General protective and hygienic measures:		
General protective and hygienic measures: Keep away from food and beverages.	Immediately rem	ove all soiled and contaminated clothing.

- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes. 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.

(Contd. on page 6)

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Printing date 09/13/2022

Reviewed on 09/13/2022

Trade name: XP MicroSpray SU-8 Photoresist Spray

(Contd. of page 5)

· Protection of hands:



*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.* • *Material of gloves* 

- Butyl rubber, BR
- Nitrile rubber, NBR
- · Penetration time of glove material Contact glove manufacture for break-through time.
- Eye protection:



Tightly sealed goggles

# 9 Physical and chemical properties

Appearance:	
Form:	Aerosol
Color:	Amber colored
Odor:	Ester-like
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	-24 °C (-11.2 °F)
Flash point:	-42 °C (-43.6 °F) (クローズドカップ)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	235 °C (455 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	1.5 Vol %
Upper:	18.6 Vol %
Vapor pressure at 20 °C (68 °F):	5200 hPa (3,900.3 mm Hg)
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.



Printing date 09/13/2022

Reviewed on 09/13/2022

Trade name: XP MicroSpray SU-8 Photoresist Spray

		(Contd. of page 6
· Evaporation rate	0.39 (BuAc=1)	
· Solubility in / Miscibility with		
Water:	Water miscible No	
· Partition coefficient (n-octano	nl/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
VOC content:	70-80 %	
• Other information	No further relevant information available.	

# 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** Possible formation of peroxide. 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, Strong Reducing Agents, Iron, Hydrazine
- Hazardous decomposition products:
- Carbon monoxide and carbon dioxide
- Corrosive gases/vapors
- Danger of toxic pyrolysis products.

### 11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values	that are	relevant for	classification:

Oral	LD50	8532 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Rat)
Inhalative	LC50/6 h	4345 ppm (Rat)
Epoxy resi	in	·
Oral	LD50	>2000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50	>5 mg/L (Rat)
115-10-6 d	limethyl eth	her
Inhalative	LC50 4 hr	164000 ppm (Rat)

US –



Printing date 09/13/2022

Reviewed on 09/13/2022

#### Trade name: XP MicroSpray SU-8 Photoresist Spray

108-32-7	Propylene	carbonate	(Contd. of page 7)
Oral	LD50	>5000 mg/kg (Rat)	
Dermal	LD50	>2000 mg/kg (rabbit)	
· Primary	irritant eff	ect:	

• 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)

None of the ingredients are listed.

· 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:

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)

115-10-6 dimethyl ether

EC50/48 h >4400 mg/l (daphnia magna)

· 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.

· Ecotoxical effects:

• Remark: Toxic for fish

• 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. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

(Contd. on page 9)

<sup>-</sup> US



Printing date 09/13/2022

### Reviewed on 09/13/2022

Trade name: XP MicroSpray SU-8 Photoresist Spray

(Contd. of page 8)

• 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.

UN-Number DOT, ADR, IMDG, IATA	UN1950	
UN proper shipping name DOT, IATA ADR IMDG	AEROSOLS, flammable 1950 AEROSOLS AEROSOLS	
Transport hazard class(es)		
DOT		
Class Label	2.1 Gases 2.1	
ADR		
Class	2 5F Gases	
Label	2.1	
IMDG, IATA		
Class	2.1 Gases	
Label	2.1	
Packing group DOT, ADR, IMDG, IATA	Void	



Printing date 09/13/2022

Reviewed on 09/13/2022

Trade name: XP MicroSpray SU-8 Photoresist Spray

		(Contd. of page 9
· Environmental hazards: · Marine pollutant:	No	
• Special precautions for user • Hazard identification number (Kemler co	Warning: Gases ode): -	
· EMS Number:	F-D,S-U	
• Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.	
· UN ''Model Regulation'':	UN1950, AEROSOLS, 2.1	

#### 15 Regulatory information

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

• Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

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

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

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

· 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

115-10-6 dimethyl ether

New Jersey State Right To Know List

115-10-6 dimethyl ether

(Contd. on page 11)

<sup>—</sup> US



Printing date 09/13/2022

Reviewed on 09/13/2022

Trade name: XP MicroSpray SU-8 Photoresist Spray

(Contd. of page 10)

#### · Pennsylvania Hazardous Substances List

115-10-6 dimethyl ether

- · California SCAQMD Rule 443.1 VOC's: 969 g/l; vapor pressure 3982 mm Hg @ 20C
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



· Signal word Danger

#### · Hazard-determining components of labeling: Epoxy resin 1-Methoxy-2-propanol acetate 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 H222 Extremely flammable aerosol. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. H402 Harmful to aquatic life. H412 Harmful to aquatic life with long lasting effects. · Precautionary statements P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use. P260 Do not breathe dust/fume/gas/mist/vapors/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 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 alcohol resistant foam to extinguish.
- *P370+P378* In case of fire: Use fire-extinguishing powder to extinguish.
- *P370+P378* In case of fire: Use carbon dioxide to extinguish.
- *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.

(Contd. on page 12)



Printing date 09/13/2022

Reviewed on 09/13/2022

Trade name: XP MicroSpray SU-8 Photoresist Spray

(Contd. of page 11)

#### 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 09/13/2022 · 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 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Gases 1: Flammable gases – Category 1 Flammable Aerosols 1: Aerosols – Category 1 Gases under Pressure - Compressed gas: Gases under pressure - Compressed gas Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Inhalation 4: Acute toxicity - Category 4 Skin Irrititation 2: Skin corrosion/irritation – Category 2 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 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3