

Printing date 04/27/2021

1 Identification

· Product identifier

- · Trade name: PriElex® SU-8 C1
- Product number: J123345
- · 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

Reviewed on 04/27/2021



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Trade name: PriElex® SU-8 C1

Hazard pictograms $\begin{aligned} $		(Contd. of page
Signal word Danger Hazard-determining components of labeling: gamma-Butyvolacione Proprietary: Epoxy Resin Proprietary: Epoxy Resin Proprietary: Resin 1-Methoxy-2-propanol acetate Hazard Statements 1126 Flammable liquid and vapor. 11326 Flammable liquid and vapor. 11332 May cause an allergic skin reaction. 11336 May cause an allergic skin reaction. 1136 May cause damage to organs through prolonged or repeated exposure. Precautionary statements 1210 May cause damage to organs through prolonged or repeated exposure. Precautionary statements 1210 May cause damage to organs through prolonged or repeated exposure. Precautionary statements 1210 May cause downies or diziness. 1337 May cause downies or diziness. 1336 May cause downies or diziness. 1337 May cause downies or diziness. 1336 May cause downies or diziness. 1337 May cause downies or diziness. 1336 May cause downies or diziness. 1336 May cause downies or diziness. 1336 May cause downies or diziness. 1337 May cause downies or diziness. 1336 May cause downies or discrimential distription of protection faces No smoking. 1200 Meep away from heat/sparks/open flames/hot surfaces No smoking. 1210 P210 Meen protective gloves/protective clothing/eye protection/face protection. 1202+P352 If on skin: Wash with plenty of soap and water. 1202+P351 P318 If weak with plenty of soap and water. 1203+P311 If skin trittation or rash occurs: Get medical advice/attention. 1203+P313 If skin trittation or rash occurs: Get medical advice/attention. 120403+P233 Store in a well-ventilated place. Keep container tightly closed. 120403+P233 Store in a well-ventilated place. Keep container tightly closed. 120403+P233 Store in a well-ventilated place. Keep container tightly closed. 120403+P233 Store in a well-ventilated place. Keep container tightly closed. 120403+P233 Store in a well-ventilated place. Keep container tightly closed. 120403+P233 Store in a well-ventilated place. Keep container tightly closed. 120403+P234 P315 Health = 3 1216 P	Hazard pictogram	
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 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 breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pres and easy to do. Continue rinsing. P305+P351+P338 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If skin irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use to extinguish: Alcohol resistant foam, Fire-extinguishing powder, Carl dioxide. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/internation regulations. Classification system: NFPA ratings (scale 0 - 4) HEALTH 3 Health = 3 Fire = 2 Reactivity = 0 HMIS-ratings (scale 0 - 4) 		
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- 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.

108-65-6	1-Methoxy-2-propanol acetate	20-559
	🚸 Flam. Liq. 3, H226; 🕔 STOT SE 3, H336	
96-48-0	gamma-Butyrolactone	3-30%
	Proprietary Epoxy Resin STOT RE 2, H373; O Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; Aquatic Chronic 4, H413	10-259
	Proprietary Resin	10-25%
	Proprietary Photoacid Initiator (Aquatic Chronic 2, H411; (Acute Tox. 4, H302; Acute Tox. 4, H332	<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:

Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

- 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 a doctor.

• 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

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- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.

• Advice for firefighters

· Protective equipment: Wear SCBA.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
 Ensure adequate ventilation
 Keep away from ignition sources
 Wear protective equipment. Keep unprotected persons away.
 Environmental precautions: Do not allow product to reach sewage system or any drains.
 Methods and material for containment and cleaning up:
 Absorb with liquid binding material (aged distortion goild binding amingment binders age)
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

· 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 away from heat and direct sunlight.
- · Information about protection against explosions and fires:

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools. Protect from heat.

- · 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 alkalis (caustic solutions).
- 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.

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- · Control parameters
- Components with limit values that require monitoring at the workplace:
- 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.
- 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

9 Physical	and	chemica	l properties
			Properties

General Information		
Appearance:		
Form:	Fluid	
Color:	Clear to light yellow	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	105 °C (221 °F)	
Flash point:	46 °C (114.8 °F)	
Ignition temperature:	315 °C (599 °F)	

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		(Contd. of page
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	1.5 Vol %	
Upper:	15.6 Vol %	
Vapor pressure at 20 °C (68 °F):	5 hPa (3.8 mm Hg)	
Density:	See other information	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	1.6-2.3 (BuAc=1)	
Solubility in / Miscibility with		
Water:	Water miscible No	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	54.9 %	
VOC content:	54.85 %	
Solids content:	24.6 %	
Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight. Contact with incompatible materials.

- Incompatible materials: Strong Oxidizing Agents, Strong Acids, Strong Bases
- \cdot Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information • Information on toxicological effects • Acute toxicity: • LD/LC50 values that are relevant for classification: Proprietary Resin Oral LD50 • (Contd. on page 7) US

[·] Chemical stability Stable



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100-00-01	Madharme 7 means and a same	-
	-Methoxy-2-propanol acetat	
Oral	LD50	8532 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Rat)
Inhalative		4345 ppm (Rat)
96-48-0 ga	umma-Butyrolactone	
Oral	LD50	1540 mg/kg (Rat)
Dermal	LD50	5000 mg/kg (gui)
Inhalative	LC50/4 h	>5.1 mg/l (Rat)
Proprietar	y Epoxy Resin	
Oral	NOEL 28 day repeated dose	250 mg/kg/day (Rat)
	toxicological information:	ns: Central nervous system, kidney, liver, lungs
• Additional The produc Harmful Irritant	toxicological information:	ns: Central nervous system, kidney, liver, lungs
• Additional The produc Harmful Irritant • Carcinoge	toxicological information: ct shows the following danger	s according to internally approved calculation methods for preparations
• Additional The product Harmful Irritant • Carcinoge • IARC (International Contents)	toxicological information: ct shows the following danger nic categories	s according to internally approved calculation methods for preparations
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 Additional The product Harmful Irritant Carcinoge IARC (Integration of the None of the 	toxicological information: ct shows the following danger nic categories ernational Agency for Resear amma-Butyrolactone fonal Toxicology Program)	rch on Cancer)

12 Ecological information

· Toxicity

• Aquatic toxicity:

No further relevant information available.

108-65-6 1-M	108-65-6 1-Methoxy-2-propanol acetate			
ErC50 96 hou	ErC50 96 hour >1000 mg/l (Pseudokirchneriella subcapitata (algea))			
LC50	LC50 408-500 mg/l (daphnia magna)			
	100-180 mg/l (rainbow trout (Oncorhynchus mykiss))			
96-48-0 gamn	na-Butyrolactone			
EC50/17 h	>10000 mg/l (bacterium)			
EC50/48 h	EC50/48 h >500 mg/l (daphnia magna)			
EC50/72 h	360 mg/l (green algae)			
LC50/96 h	>220 - <460 mg/l (golden orfe)			
· Persistence an	• Persistence and degradability No further relevant information available.			
Behavior in environmental systems:				
· Bioaccumulat	t ive potential No further relevant information available.			

llative potential No further relevant information available.



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- · *Mobility in soil* No further relevant information available.
- Additional ecological information:
- \cdot General notes: Not known to be hazardous to water.
- · 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.

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, ĂĎR, ÎMDG, IATA	III	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	

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Not applicable.

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• Hazard identification number (Kemler code): 30 • EMS Number: F-E,S-E

• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

· 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 components of this product are on the TSCA 8(b) Inventory. • **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.

· 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*



· Signal word Danger

• Hazard-determining components of labeling: gamma-Butyrolactone

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	(Contd. of page 9,
Proprietary Epo	xy Resin
Proprietary Res	in
1-Methoxy-2-pr	opanol acetate
Hazard stateme	nts
H226 Flammab	le liquid and vapor.
H332 Harmful i	f inhaled.
H315 Causes sk	in irritation.
H318 Causes se	rious eye damage.
H317 May caus	e an allergic skin reaction.
H336 May caus	e drowsiness or dizziness.
H373 May caus	e damage to organs through prolonged or repeated exposure.
Precautionary s	tatements
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+P.	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if presen 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+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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 hazard classification and precautionary statements for the mixture in Section 2 were revised.

- · Date of preparation / last revision 04/27/2021 / 2
- 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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

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US



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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	
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	
<i>Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A</i>	
Skin Sens. 1: Skin sensitisation – Category 1	
Skin Sens. 1B: Skin sensitisation – Category 1B	
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	
	LIC