

Printing date 05/05/2025

1 Identification

· Product identifier

- · Trade name: <u>TempKoatTM N Series Resists</u>
- Product number: T212045
- · 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

Classification of the substance or mixture		
GHS02 Flame		
Flammable Liquids 3	H226	Flammable liquid and vapor.
GHS08 Health hazard		
<i>Toxic to Reproduction 1B</i>	H360-H362	May damage fertility or the unborn child. May cause harm to breast-fed children.
Specific Target Organ Toxicity - Repeated Exposure 2	H373	May cause damage to organs through prolonged or repeated exposure.
GHS05 Corrosion		
Eye Damage 1	H318	Causes serious eye damage.
GHS07		
Specific Target Organ Toxicity - Single Exposure 3	H336	May cause drowsiness or dizziness.
Aquatic Acute 3	H402	Harmful to aquatic life.



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 Hazard pictograms Hazard pictograms Kazard pictograms Weigen Weigen Wei
 Signal word Danger Hazard-determining components of labeling: Proprietary Copolymer 1-Methoxy-2-propanol acetate Hazard statements H226 Flammable liquid and vapor. H318 Causes serious eye damage. H360-H362 May damage fertility or the unborn child. May cause harm to breast-fed children. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H402 Harmful to aquatic life. Precutionary statements P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P263 Avoid contact during pregnancy/while nursing. P263 Avoid contact during pregnancy/while nursing. P304 + P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P305+P351+P318 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 If eye irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P37+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.
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1 501 Dispose of contents/container in accordance with tocal/regional/national/international
regulations.
· Additional information:
8.1 % of the mixture consists of component(s) of unknown toxicity.
· Classification system:
· NFPA ratings (scale 0 - 4)
Health $= 3$
$\begin{array}{c} 3 \\ \hline 0 \\ Reactivity = 0 \end{array}$
HMIS-ratings (scale 0 - 4)
HEALTH *3 $Health = *3$
FIRE2 $Fire = 2$ REACTIVITY0 $Reactivity = 0$

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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	25-50
	Flammable Liquids 3, H226; Specific Target Organ Toxicity - Single Exposure 3, H336	
	Proprietary Copolymer Toxic to Reproduction 1B, H360-H362; Specific Target Organ Toxicity - Repeated Exposure 2, H373; System Damage 1, H318; Aquatic Acute 3, H402	- 25-50
	Proprietary crosslinker	- 5-15%
120-92-3	Cyclopentanone Flammable Liquids 3, H226; Skin Irritation 2, H315; Eye Irritation 2A, H319	- 1-5%

4 First-aid measures

- · Description of first aid measures
- 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:

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.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Alcohol resistant foam Fire-extinguishing powder
- Carbon dioxide
- Special hazards arising from the substance or mixture No further relevant information available.

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• Advice for firefighters

• **Protective equipment:** Wear SCBA.

6 Accidental release measures

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Wear proi Ensure au Keep awa Environn Dilute wit Do not all	precautions, protective equipment and emergency procedures tective equipment. Keep unprotected persons away. lequate ventilation y from ignition sources tental precautions: th plenty of water. low to enter sewers/ surface or ground water. and material for containment and cleaning up:	
	ith liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	lequate ventilation.	
	e to other sections	
	on 7 for information on safe handling.	
	on 8 for information on personal protection equipment.	
	on 13 for disposal information.	
	e Action Criteria for Chemicals	
• PAC-1:		
108-65-6	1-Methoxy-2-propanol acetate	50 ppm
120-92-3	Cyclopentanone	0.87 ppm
· PAC-2:		
108-65-6	1-Methoxy-2-propanol acetate	1,000 ppm
120-92-3	Cyclopentanone	9.5 ppm
• PAC-3:		
108-65-6	1-Methoxy-2-propanol acetate	5000* ppm
120-92-3	Cyclopentanone	57 ppm

7 Handling and storage

- · Handling:
- *Precautions for safe handling Ensure good ventilation/exhaust at the workplace. Prevent formation of aerosols.*
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and containers: No special requirements.
- 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: Store frozen.

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- 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 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.

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: Wash hands before breaks and at the end of work.
- *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: Light yellow Odor: Sweet · Odor threshold: Not determined. · pH-value: Not determined. (Contd. on page 6) US



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	(Contd. of page
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 146.4 °C (295.5 °F)
Flash point:	46 °C (114.8 °F)
Flammability:	Not applicable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits: Lower: Upper:	1.5 Vol % 10.8 Vol %
Vapor pressure at 20 °C (68 °F):	5 hPa (3.8 mm Hg)
Density: Relative density Vapor density Evaporation rate	See Other information Not determined. Not determined. 1.6-2.3 (BuAc=1)
Solubility in / Miscibility with Water:	Insoluble.
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Other information	NameNumberSp. Grav.VOC(%by wt.)VOC(g/L)N15T2120451.0750-55540

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 No dangerous reactions known.
- · Conditions to avoid
- Contact with incompatible materials.
- Heat, flames and sparks. Extremes of temperature and direct sunlight.
- · Incompatible materials: Strong Oxidizing Agents, Strong Acids, Strong Bases
- *Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrocarbons*
- Nitrogen oxides (NOx)
- Sulfur oxides (SOx)

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11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

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

 Oral
 LD50
 8,532 mg/kg (Rat)

 Dermal
 LD50
 >5,000 mg/kg (Rat)

 Inhalative
 LC50/6 h
 4,345 ppm (Rat)

• Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

· Sensitization: No sensitizing effects known.

· Experience with humans: Target Organs: Central nervous system, kidney, liver, lungs

· Additional toxicological information:

· 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: 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.

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· Uncleaned packagings:

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

· Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT, ADR, IMDG, IATA	UN1866
UN proper shipping name	
DOT	Resin solution
ADR, IMDG, IATA	RESIN SOLUTION
Transport hazard class(es)	
DOT	
RAMARE LOOD	
Class	3 Flammable liquids
Label	3
ADR, IMDG, IATA	
3	
Class	2 Elanumente la linuida
Label	3 Flammable liquids 3
	5
Packing group DOT, ADR, IMDG, IATA	111
Environmental hazards:	
	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code). EMS Number:	F-E,S-E
Stowage Category	A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
	1101 uppicuoic.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
ADR	
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml



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• IMDG • Limited quantities (LQ) • Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
· UN "Model Regulation":	UN 1866 RESIN SOLUTION, 3, III	

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):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

This product contains at least one component that is not listed (and is not excluded from listing) on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory, and therefore can be used only for research and development purposes under the conditions described in the Code of Federal Regulations at 40 CFR 720.36.

Hazardous Air Pollutants

None of the ingredients are listed.

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

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· Pennsylvania H	lazardous Substances List
120-92-3 Cyclo	pentanone
	QMD Rule 443.1 VOC's: No information available. ents The product is classified and labeled according to the Globally Harmonized System (GHS). ums
GHS02 GHS	605 GHS07 GHS08
• Signal word Da	nger
• Hazard-determi	ining components of labeling:
Proprietary Cop	
1-Methoxy-2-pro	
• Hazard statement	
	mmable liquid and vapor.
	ises serious eye damage.
	y damage fertility or the unborn child. May cause harm to breast-fed children.
H336 May	y cause drowsiness or dizziness.
	y cause damage to organs through prolonged or repeated exposure.
	rmful to aquatic life.
• Precautionary s	tatements
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P263	Avoid contact during pregnancy/while nursing.
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+P3	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 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)

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Revision History:	
The hazard classification and precautionary statements for the mixture in Sectio	n ? were revised
Date of preparation / last revision 05/05/2025 / 5	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European	n Agreement Concerning the Internation
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)	
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 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	
Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B	
Toxic to Reproduction 1B: Reproductive toxicity – Category 1B	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) -	– Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated expos	sure) – Category 2
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3	