Revision: 04.04.2023



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 04.04.2023

Version number 6 (replaces version 5)

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

· 1.1 Product identifier

· Trade name: LOR A Series Resists

· Article number:

G516602, G516603, G516604, G516605, G516606, G516607, G516608, G516658, G516609, G516610, G516611, G516612, G516614, G516616, G516619

· 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:

Kayaku Advanced Materials, Inc.

200 Flanders Road Westborough, MA 01581 Tel: (617) 965-5511 Fax: (617) 965-5818

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms





GHS02

GHS07



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· Signal word Warning

· Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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 victim to fresh air and keep at rest in a position

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.

· 2.3 Other hazards

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

Determination of endocrine-disrupting properties

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.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

· Dangerous components:		
CAS: 120-92-3 EINECS: 204-435-9 Index number: 606-025-00-9 Reg.nr.: 01-2119495595-21-0000	Cyclopentanone Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319	65-90%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3	1-methoxy-2-propanol Flam. Liq. 3, H226; STOT SE 3, H336	5-25%
CAS: 102322-80-5	Polyaliphatic imide copolymer Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-20%

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· Additional Components:

Proprietary Dye A

<1%

· Additional information: 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.

If skin irritation continues, consult a doctor.

· 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: If symptoms persist consult doctor.
- 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.

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

Water

· 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.
- · 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

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· 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

No release to water in manufacturing, process, use or disposal.

Ensure good ventilation/exhaust at the workplace.

Prevent formation of aerosols.

Keep receptacles tightly sealed.

Use only under yellow light

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

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

Protect against electrostatic charges.

· 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 alkalis (caustic solutions).

Do not store together with oxidising and acidic materials.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

107-98-2 1-methoxy-2-propanol

IOELV Short-term value: 568 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm

Clina

Skin

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as 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.

Do not inhale gases / fumes / aerosols.

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· Respiratory protection:

In case of low exposure use cartridge respirator. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection



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/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Liquid · Colour: Red

Odour: Slightly sweet
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point

and boiling range 120 °C

· Flammability Not applicable.

· Lower and upper explosion limit

· Lower: 2.3 Vol %
· Upper: Not determined.

· Flash point: 30 °C · Auto-ignition temperature: 270 °C

• Decomposition temperature: Not determined. • pH Not determined.

· Viscosity:

· Kinematic viscosity Not determined.

· Kinematic viscosity

· **Dynamic:** Not determined.

·Solubility

• water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water

(log value) Not determined.

· Vapour pressure at 20 °C: 12 hPa

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					(Contd.	of pag
Vapour pressure:						
Density and/or relative density						
Density:	Not determ					
Relative density	See Table 1 Other Information					
Vapour density	Not determ	nined.				
9.2 Other information	Name	Number	Sp. Grav.	Vol.(%by w	t.) VOC(g/L)	
	LOR 0.5A	G516602	0.946	98	930	
	LOR 0.7A	G516603	0.948	97	925	
	LOR 1A	G516604	0.951	96	920	
	LOR 2A	G516605	0.953	95	910	
	LOR 3A	G516606	0.958	94	900	
	LOR 4A	G516607	0.961	93	895	
	LOR 5A	G516608	0.964	92	890	
	LOR 6A	G516658	0.965	92	885	
	LOR 7A	G516609	0.966	91	880	
	LOR 8A	G516610	0.968	90	875	
	LOR 10A	G516611	0.971	89	870	
	LOR 15A	G516612	0.978	87	855	
	LOR 20A	G516614	0.982	86	845	
	LOR 30A	G516616	0.989	84	830	
	LOR 50A	G516619	0.992	81	800	
Appearance:						
Form:	Liquid					
Important information on protection of						
health and environment, and on safety.						
Ignition temperature:	Product is	not selfign	iiting.			
· Ignition temperature: · Explosive properties:		not selfigr s not explo		ever, format	ion of explosive air	/vapo
Ignition temperature: Explosive properties:	Product is	s not explo	sive. How	ever, format	ion of explosive air,	/vapo
Explosive properties:	Product is		sive. How	ever, format	ion of explosive air,	/vapo
	Product is	s not explo ire possible	sive. How	ever, format	ion of explosive air	/vapo
Explosive properties: Change in condition Evaporation rate	Product is mixtures a	s not explo ire possible	sive. How	ever, format	ion of explosive air	/vapo
Explosive properties: Change in condition Evaporation rate Information with regard to physical	Product is mixtures a	s not explo ire possible	sive. How	ever, format	ion of explosive air,	/vape
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes	Product is mixtures a	s not explo ire possible	sive. How	ever, format	ion of explosive air,	/vapo
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Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols	Product is mixtures a Not determined Void Void	s not explo ire possible	sive. How	ever, format	ion of explosive air	/vapo
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases	Product is mixtures a Not determ	s not explo ire possible	sive. How	ever, format	ion of explosive air	/vape
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure	Product is mixtures a Not determined Void Void Void Void	s not explo ire possible	sive. How	ever, format	ion of explosive air	/vape
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids	Product is mixtures a Not determ	s not explo ire possible	sive. How	ever, format	ion of explosive air	/vape
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Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable liquid and vapour. Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	Product is mixtures at Not determed Void Void Void Void Void Void Void Voi	s not explo ire possible	sive. How	ever, format	ion of explosive air	/vape
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable liquid and vapour. Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	Product is mixtures at Not determed Void Void Void Void Void Void Void Voi	s not explo ire possible	sive. How	ever, format	ion of explosive air	/vape
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Oxidising gases Gases under pressure Flammable liquids Flammable liquid and vapour. Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	Product is mixtures at Not determed Void Void Void Void Void Void Void Voi	s not explo ire possible	sive. How	ever, format	ion of explosive air	/vape
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Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable liquid and vapour. Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Product is mixtures at Not determed Void Void Void Void Void Void Void Voi	s not explo ire possible	sive. How	ever, format	ion of explosive air	/vape
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable liquid and vapour. Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Product is mixtures at Not determent Void Void Void Void Void Void Void Void	s not explo ire possible	sive. How	ever, format	ion of explosive air	/vape
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable liquid and vapour. Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Product is mixtures at Not determed Void Void Void Void Void Void Void Voi	s not explo ire possible	sive. How	ever, format	ion of explosive air	/vape



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· Corrosive to metals Void · Desensitised explosives Void

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 No dangerous reactions known.
- · 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 Acids, Strong Bases
- · 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:					
120-92-3 (120-92-3 Cyclopentanone				
Oral	LD50	1180 mg/kg (Rat)			
Dermal	LD50	>2000 mg/kg (rabbit)			
Inhalative	LC50/4 h	>19.5 mg/l (Rat)			
107-98-2 1	107-98-2 1-methoxy-2-propanol				
Oral	LD50	5660 mg/kg (Rat)			
Dermal	LD50	13000 mg/kg (rabbit)			
Inhalative	LC50/4 h	54.6 mg/l (Rat)			
102322-80	102322-80-5 Polyaliphatic imide copolymer				
Oral	LD50	>5000 mg/kg (Rat) (Data for compositionally similar material)			
Dermal	LD50	>5000 mg/kg (Rat) (Data for compositionally similar material)			

· Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation No information
- · Germ cell mutagenicity

No information

Based on available data, the classification criteria are not met.

- · Carcinogenicity No information
- · Reproductive toxicity No information
- · STOT-single exposure No information
- · STOT-repeated exposure No information
- · Aspiration hazard No information

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- · Experience with humans: No further relevant information available.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

	· Aquatic toxi	icity:				
ſ	120-92-3 Cyclopentanone					
ſ		100 mg/l (daphnia magna)				
	EC50/72 h	>100 mg/l (scenedesmus subspicatus)				
	LC50/96 h	>100 mg/l (fish)				
ſ		methoxy-2-propanol				
Γ		23300 mg/l (daphnia magna)				
		>1000 mg/l (green algae)				
	LC50/96 h	20800 mg/l (Pimephales promelas)				

- · 12.2 Persistence and degradability Moderately /partly biodegradable
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · 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.

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. Disposal must be made in accordance with International, National, and regional regulations.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA

UN1866

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14.2 UN proper shipping name ADR IMDG, IATA	1866 RESIN SOLUTION 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):	33	
EMS Number:	F-E, <u>S-E</u>	
14.7 Maritime transport in bulk according to IM		
instruments	Not applicable.	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	5L	
Transport category	3 D/T	
Tunnel restriction code	D/E	
UN "Model Regulation":	UN1866, RESIN SOLUTION, 3, III	

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 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.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Classification according to Regulation (EC) No 1272/2008

Art. 9(1) of Regulation (EC) No. 1272/2008 was used for classification purposes.

- · 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.

- · Version number of previous version: 5
- · 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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3