

Printing date 24.07.2023 Version number 5 (replaces version 4)

rion number 5 (replaces version 4) Revision: 24.07.2023

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

- · 1.1 Product identifier
- Trade name: 100 PMMA Series Resists in Anisole
- · Article number:

M630001, M630002, M630003, M630004, M630504, M630005, M630006, M630007, M630008, M630009, M630010

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · 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.



Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

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

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

(Contd. on page 2)



Printing date 24.07.2023 Version number 5 (replaces version 4) Revision: 24.07.2023

Trade name: 100 PMMA Series Resists in Anisole

(Contd. of page 1)

· Hazard pictograms





GHS02 GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

Anisole

- · Hazard statements
- H226 Flammable liquid and vapour.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- · Precautionary statements

	J
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
D212	Taka action to prevent static discharges

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / 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 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.



Printing date 24.07.2023 Version number 5 (replaces version 4) Revision: 24.07.2023

Trade name: 100 PMMA Series Resists in Anisole

(Contd. of page 2)

SECTION 3: Composition/information on ingredients

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

· Dangerous compone	ents:	
CAS: 100-66-3	Anisole	80-100%
EINECS: 202-876-1	♠ Flam. Liq. 3, H226; ♠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
· Additional Compone	ents:	
9010-88-2 Poly(met	hyl methacrylate-co-ethyl acrylate)	1-20%

· 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
- · 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: 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
- · 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.

(Contd. on page 4)



Printing date 24.07.2023 Version number 5 (replaces version 4) Revision: 24.07.2023

Trade name: 100 PMMA Series Resists in Anisole

(Contd. of page 3)

· 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.

Use only under yellow light

· 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 inert atmosphere or keep well sealed to prevent the formation of peroxides and other oxidation products.

Information about storage in one common storage facility:

Do not store together with oxidising and acidic materials.

Do not store together with alkalis (caustic solutions).

· Further information about storage conditions:

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

Store in cool, dry conditions in well sealed containers.

· 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · 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:

Wash hands before breaks and at the end of work.

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

• Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

(Contd. on page 5)



Printing date 24.07.2023 *Version number 5 (replaces version 4)* Revision: 24.07.2023

Trade name: 100 PMMA Series Resists in Anisole

· Hand protection

(Contd. of page 4)



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: Clear to light yellow

· Odour: Strong

· Odour threshold: Not determined. Undetermined.

· Melting point/freezing point:

· Boiling point or initial boiling point

184 °C and boiling range

· Flammability Not applicable.

· Lower and upper explosion limit

Not determined. · Lower: · Upper: Not determined.

· Flash point: 43 °C 475 °C · Auto-ignition temperature:

Not determined. · Decomposition temperature: Not determined. $\cdot pH$

· Viscosity:

Not determined. · Kinematic viscosity Not determined. · Dynamic:

· Solubility

Not miscible or difficult to mix. · water:

· Partition coefficient n-octanol/water

Not determined. (log value)

· Vapour pressure at 20 °C: 0.4 hPa

· Density and/or relative density

See Other information · Density:

(Contd. on page 6)



Printing date 24.07.2023 Version number 5 (replaces version 4) Revision: 24.07.2023

Trade name: 100 PMMA Series Resists in Anisole

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Vapour density	Not deter	mined.				
9.2 Other information	Name	Number	Sp. Grav.	Vol.(%by wt.)	VOC(g/L)	
•	100A1	<i>M630001</i>	0.996	0	0	
	100A2	M630002	0.997	0	0	
	100A3	M630003	0.999	0	0	
	100A4	M630004	1.001	0	0	
	100A4.5	M630504	1.002	0	0	
	100A5	<i>M630005</i>	1.003	0	0	
	100A6	<i>M630006</i>	1.005	0	0	
	100A7	M630007	1.007	0	0	
	100A8	M630008	1.009	0	0	
	100A9	M630009	1.011	0	0	
	100A10	M630010	1.022	0	0	
Appearance:						
Form:	Liquid					
Important information on protection of						
health and environment, and on safety						
Ignition temperature:		a not colfiani				
		s noi seijigni	ting.			
				ver, formation	ı of explosi	ve air/vap
Explosive properties:	Product i		ive. Howe	ver, formation	ı of explosi	ive air/vap
	Product i	is not explos	ive. Howe	ver, formatior	of explosi	ive air/vap
Explosive properties:	Product i	is not explos are possible.	ive. Howe	ver, formatior	n of explosi	ive air/vap
Explosive properties: Change in condition Evaporation rate	Product i mixtures i	is not explos are possible.	ive. Howe	ver, formation	of explosi	ive air/vap
Explosive properties: Change in condition Evaporation rate Information with regard to physical	Product i mixtures i	is not explos are possible.	ive. Howe	ver, formation	ı of explosi	ive air/vap
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes	Product is mixtures of Not determined	is not explos are possible.	ive. Howe	ver, formation	of explosi	ive air/vap
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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	Product is mixtures of Mot determined Void Void Void Void Flammab	is not explos are possible.	ive. Howe	ver, formation	of explosi	ive air/vap
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 solids	Product is mixtures of mixtures of Mot determined Void Void Void Flammab Void	is not explos are possible. mined.	ive. Howe	ver, formation	of explosi	ive air/vap
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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 solids Self-reactive substances and mixtures Pyrophoric liquids	Product is mixtures of Mixture	is not explos are possible. mined.	ive. Howe	ver, formation	of explosi	ive air/vap
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 solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Product is mixtures of mixtures of mixtures of mixtures of the	is not explos are possible. mined.	ive. Howe	ver, formation	of explosi	ive air/vap
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 solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	Product is mixtures of Mixture	is not explos are possible. mined.	ive. Howe	ver, formation	of explosi	ive air/vap
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 solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit	Product is mixtures of mixtures of mixtures of Motor determined to the Void Void Void Void Void Void Void Void	is not explos are possible. mined.	ive. Howe	ver, formation	of explosi	ive air/vap
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 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 of mixture	is not explos are possible. mined.	ive. Howe	ver, formation	of explosi	ive air/vap
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 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 Oxidising liquids	Product is mixtures of Mixture	is not explos are possible. mined.	ive. Howe	ver, formation	of explosi	ive air/vap
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 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 Oxidising liquids Oxidising solids	Product is mixtures of mixture	is not explos are possible. mined.	ive. Howe	ver, formation	n of explosi	ive air/vap
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 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 Oxidising liquids	Product is mixtures of Mixture	is not explos are possible. mined.	ive. Howe	ver, formation	of explosi	ive air/vap

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.

(Contd. on page 7)



Printing date 24.07.2023 Version number 5 (replaces version 4) Revision: 24.07.2023

Trade name: 100 PMMA Series Resists in Anisole

(Contd. of page 6)

· 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

Phenol

methyl methacrylate

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity

Harmful if inhaled.

· LD/LC50 values relevant for classification:			
100-66-	3 Anisa	ple	
Oral	LD50	3700 mg/kg (Rat)	
Dermal	LD50	>5000 mg/kg (rabbit)	

- · Skin corrosion/irritation
- Causes skin irritation.
- Serious eye damage/irritation

Causes serious eye irritation.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · 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 respiratory irritation.

- · 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.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity:
 100-66-3 Anisole

EC50/24 h | 40 mg/l (daphnia magna)

EC50/96 hr | 162 mg/l (green algae)

LC50/48 hr | 120 mg/L (Cyprinus carpio (common carp))

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

(Contd. on page 8)



Printing date 24.07.2023 *Version number 5 (replaces version 4)* Revision: 24.07.2023

Trade name: 100 PMMA Series Resists in Anisole

(Contd. of page 7)

- · 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 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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.

14.1 UN number or ID number ADR, IMDG, IATA	UN1866	
14.2 UN proper shipping name ADR	1866 RESIN SOLUTION	
IMDG, IATA	RESIN SOLUTION	
14.3 Transport hazard class(es)		
ADR, IMDG, IATA		
Class Label	3 Flammable liquids.	
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:	F-E, <u>S-E</u>	
14.7 Maritime transport in bulk according to IM	10	
instruments	Not applicable.	



Printing date 24.07.2023 Version number 5 (replaces version 4) Revision: 24.07.2023

Trade name: 100 PMMA Series Resists in Anisole

(Contd. of page 8)

	(Conta. of page 6
· Transport/Additional information:	
$\cdot ADR$	
· Limited quantities (LQ)	5L
· Transport category	3
· 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
- · Directive 2012/18/EU
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t
- · 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.

· 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 eve irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

· 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)

(Contd. on page 10)



Printing date 24.07.2023 Version number 5 (replaces version 4) Revision: 24.07.2023

Trade name: 100 PMMA Series Resists in Anisole

(Contd. of page 9)

· 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: 4

· 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

Acute Tox. 4: Acute toxicity - Category 4

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

- EU