according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.12.2024

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Advanced materials Safety

Safety data sheetaccording to Regulation (EC) No 1907/2006, Article 31

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*Version number 6 (replaces version 5)* 

Revision: 13.12.2024

Trade name: PermiNex® 1000 Series Resists

Har and a sets on	(Contd. of page 1)
• Hazard pictogr	ams
$\langle \psi \rangle \langle \psi \rangle$	
GHS02 GH	S07 GHS09
• Signal word Wa	arning
-	ining components of labelling:
Epoxy Resin M.	
• Hazard stateme	
	le liquid and vapour.
H315 Causes sk	
	erious eye irritation.
	e an allergic skin reaction.
	iquatic life with long lasting effects.
Precautionary	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
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.
$P305 + P351 + P_{2}$	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.
Additional info	
	ixture consists of component(s) of unknown toxicity.
Contains 49.2 %	6 of components with unknown hazards to the aquatic environment.
2.3 Other hazar	
	and vPvB assessment
<b>PBT:</b> Not appli	
vPvB: Not appl	
	of endocrine-disrupting properties
	redients are included in the list established in accordance with Article 59(1) for having endocrine
disrupting prop	
	redients are substances identified as having endocrine disrupting properties in accordance with
the criteria set 2018/605.	out in Commission Delegated Regulation (EU) 2017/2100 (or Commission Regulation (EU)

EU

according to Regulation (EC) No 1907/2006, Article 31

*Printing date 13.12.2024* 

*Version number 6 (replaces version 5)* 

Revision: 13.12.2024

Trade name: PermiNex® 1000 Series Resists

ADVANCED MATERIALS

(Contd. of page 2)

#### **SECTION 3:** Composition/information on ingredients

· 3.2 Mixtures

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

· Dangerous components:

	Epoxy Resin M3	10-45%
	Aquatic Chronic 2, H411; (1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	_
	Epoxy Resin M2 Aquatic Chronic 2, H411; 🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	- 5-30%
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; (1) Skin Irrit. 2, H315; Eye Irrit. 2, H319	_ 25-80%
CAS: 2530-83-8 EINECS: 219-784-2	Z-6040(R) Silane	_ <1.5%
	Proprietary Quencher Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319;	_ <0.2%

• 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.

• 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

ABC powder

• For safety reasons unsuitable extinguishing agents: Water with full jet

(Contd. on page 4)

<sup>-</sup> EU

according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.12.2024

Version number 6 (replaces version 5)

Revision: 13.12.2024

Trade name: PermiNex® 1000 Series Resists

(Contd. of page 3) **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

• 5.3 Advice for firefighters

ADVANCED MATERIALS

• *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
  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.
- 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:* Due to photo-sensitivity, store product in brown-glass or stainless steel receptacles.
- *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: 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:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Contd. on page 5)

EU

EU

Safety data sheet

ADVANCED MATERIALS according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.12.2024

Version number 6 (replaces version 5)

Revision: 13.12.2024

Trade name: PermiNex® 1000 Series Resists

(Contd. of page 4) • *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. · 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 · Body protection: Long-sleeved work clothes **SECTION 9:** Physical and chemical properties 0.1 Information on basic physical and chamical properties

Physical state	Liquid	
Colour:	Clear to light yellow	
Odour:	Mild	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point	nt	
and boiling range	130 °C	
Flammability	Not applicable.	
Lower and upper explosion limit		
Lower:	1.3 Vol %	
Upper:	0.0 Vol %	
Flash point:	30 °C	
Auto-ignition temperature:	430 °C	
Decomposition temperature:	Not determined.	
pH	Not determined.	

IAL5Safety data sheetaccording to Regulation (EC) No 1907/2006, Article 31

Printing date 13.12.2024

Version number 6 (replaces version 5)

Revision: 13.12.2024

Trade name: PermiNex® 1000 Series Resists

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ADVANCED MATERIALS

					(Con	td. of page S
Viscosity:						
Kinematic viscosity	Not determined.					
Dynamic:	Not determined.					
Solubility						
water:	Not miscil	ble or difficı	ılt to mix.			
Partition coefficient n-octanol/water						
(log value)	Not determ	nined.				
Vapour pressure at 20 °C:	11 hPa					
Density and/or relative density						
Density:	See Other	information	ı			
9.2 Other information	Name	Number	Sp. Grav.	VOC(%by w	vt.) VOC(g/L)	
-	PN 1001	Y143020	0.992	75-80	795	
	PN 1005	Y143046	1.062	50-55	575	
		Y143058	1.092	40-45	480	
		Y143062	1.102	35-40	420	
	PN 1040	Y143072	1.202	25-30	325	
Appearance:						
Form:	Liquid					
Important information on protection of						
health and environment, and on safety.		10				
Ignition temperature:	Product is not selfigniting.					
	Product is not explosive. However, formation of explosive air/vapour		0	<i>c</i>	C 1 .	• /
Explosive properties:		s not explos	0	ver, formatio	on of explosive a	ir/vapou
			0	ver, formatic	on of explosive a	ir/vapou
Change in condition	mixtures a	s not explos are possible.	0	ver, formatic	on of explosive a	iir/vapou
Change in condition Evaporation rate		s not explos are possible.	0	ver, formatio	on of explosive a	ir/vapou
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Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable liquids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	mixtures a Not detern Not applic Not applic	s not explos ire possible. nined. cable.	ive. Howe	ver, formatio	on of explosive a	ir/vapou.

# SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

(Contd. on page 7)

<sup>-</sup> EU

according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.12.2024

Version number 6 (replaces version 5)

Revision: 13.12.2024

(Contd. of page 6)

Trade name: PermiNex® 1000 Series Resists

• 10.2 Chemical stability Stable

ADVANCED MATERIALS

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Exothermic polymerisation.
- 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 Corrosive gases/vapours Danger of forming toxic pyrolysis products.

### 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: **Epoxy Resin M2** Oral LD50 >2000 mg/kg (Rat) 2530-83-8 Z-6040(R) Silane Oral LD50 8030 mg/kg (Rat) Dermal LD50 4248 mg/kg (Rat) Inhalative LC50/4 h > 5.3 mg/l (Rat) 120-92-3 Cyclopentanone Oral LD50 1820 mg/kg (Rat) LD50 >2000 mg/kg (rabbit) Dermal Inhalative LC50/4 h 19.5 mg/l (Rat) · Primary irritant effect: · Skin corrosion/irritation Causes skin irritation. Serious eye damage/irritation Causes serious eye irritation. · Respiratory or skin sensitisation May cause an allergic skin reaction. · 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 Based on available data, the classification criteria are not met. · 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.

(Contd. on page 8)

according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.12.2024

Version number 6 (replaces version 5)

Revision: 13.12.2024

Trade name: PermiNex® 1000 Series Resists

ADVANCED MATERIALS

(Contd. of page 7)

LC50/96 h	7-6040(R) Silane
	55 mg/l (Cyprinus carpio (common carp))
EC50/48 h	30 mg/l (daphnia magna)
EC50/72 h	255 mg/l (Desmodesmus subscipatus (green algae))
120-92-3 Су	clopentanone
LC50/48 hr	2950 mg/L (golden orfe)
LC50/96 h	>100 mg/l (fish)
EC50/48 h	3600 mg/l (Ceriodaphnia dubia (water flea))
	100 mg/l (daphnia magna)
EC50/72 h	>100 mg/l (scenedesmus subspicatus)
12.3 Bioacce 12.4 Mobility 12.5 Results PBT: Not ap <b>vPvB:</b> Not a 12.6 Endoce The product 12.7 Other of Additional e General not Water hazar	pplicable. rine disrupting properties does not contain substances with endocrine disrupting properties. udverse effects ecological information:

# **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 informat	tion	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1866	
· 14.2 UN proper shipping name		
· ADR	RESIN SOLUTION	
·IMDG	RESIN SOLUTION, MARINE POLLUTANT	
		(Contd. on page 9)

according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.12.2024

ΚΛΥΛΚΓ

ADVANCED MATERIALS

*Version number 6 (replaces version 5)* 

Revision: 13.12.2024

Trade name: PermiNex® 1000 Series Resists

	(Contd. of page
IATA	Resin solution
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDĞ, İATA	III
14.5 Environmental hazards:	Product contains environmentally hazardous substances Formaldehyde, polymer with 1-chloro-2,3-epoxypropane an phenol
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	30
EMS Number:	F-E, <u>S-E</u> A
Stowage Category	
14.7 Maritime transport in bulk according to IN instruments	<i>Not applicable.</i>
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
Transport category	Maximum net quantity per outer packaging: 1000 ml 3
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
· · · · ·	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

# SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

• Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category

- E2 Hazardous to the Aquatic Environment
- P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

(Contd. on page 10)

<sup>·</sup> Directive 2012/18/EU

EU —

according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.12.2024

*Version number 6 (replaces version 5)* 

Revision: 13.12.2024

(Contd. of page 9)

Trade name: PermiNex® 1000 Series Resists

• Qualifying quantity (tonnes) for the application of upper-tier requirements 500 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.

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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:

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

(Contd. on page 11)



ADVANCED MATERIALS according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.12.2024

ϚϪϒϪΚĹ

Version number 6 (replaces version 5)

Revision: 13.12.2024

(Contd. of page 10)

ΕU

Trade name: PermiNex® 1000 Series Resists

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 Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3