

Printing date 05.05.2022 Version number 3 Revision: 05.05.2022

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

- · 1.1 Product identifier
- · Trade name: eTECTX Series Resists
- · Article number: eTECTX 1010, eTECTX 1050, eTECTX 1075
- · 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
- · 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

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.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

(Contd. on page 2)



Printing date 05.05.2022 Revision: 05.05.2022 Version number 3

Trade name: eTECTX Series Resists

(Contd. of page 1)

- · 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









GHS07

· Signal word Warning

· Hazard-determining components of labelling:

Proprietary Epoxy Resin

Proprietary epoxy resin M1

Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1) Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-,(OC-6-11)-hexafluoroantimonate (1-) (1:2)

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

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

smoking.

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

P273 Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P280

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.

If eye irritation persists: Get medical advice/attention. P337+P313

In case of fire: Use to extinguish: Alcohol resistant foam, Fire-extinguishing powder, Carbon P370+P378

dioxide.

P403+P235 Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international P501

regulations.

· Additional information:

Contains 32.7 % of components with unknown hazards to the aquatic environment.

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



Printing date 05.05.2022 Version number 3 Revision: 05.05.2022

Trade name: eTECTX Series Resists

(Contd. of page 2)

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture: consisting of the following components.

| | Proprietary Epoxy Resin | 25-50% |
|--|--|--------|
| | ♦ STOT RE 2, H373; ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 4, H413 | |
| | Proprietary epoxy resin M1 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 25-50% |
| 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 | 10-40% |
| CAS: 108-32-7 EINECS: 203-572-1 Index number: 607-194-00-1 | Propylene carbonate Skin Irrit. 2, H315; Eye Irrit. 2, H319 | 1-5% |
| CAS: 89452-37-9 | Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-,(OC-6-11)-hexafluoroantimonate (1-) (1:2) Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317 | 1-5% |
| CAS: 71449-78-0 | Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1) Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317 | 1-5% |
| Additional Components: | | |
| Proprietary | Resin Modifier | 5-10% |
| Epoxy Com | nound | <1% |

| · Additional Components: | | |
|--------------------------|----------------------------|-------|
| | Proprietary Resin Modifier | 5-10% |
| | Epoxy Compound | <1% |
| | 📀 Eye Dam. 1, H318 | |
| | gamma-Butyrolactone | <1% |
| EINECS: 202-509-5 | | |

[·] 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: In case of unconsciousness place patient stably in side position for transportation.
- · 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.

(Contd. on page 4)



Printing date 05.05.2022 Version number 3 Revision: 05.05.2022

Trade name: eTECTX Series Resists

(Contd. of page 3)

• 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.

Keep away from ignition sources.

Ensure adequate ventilation

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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.

(Contd. on page 5)



Printing date 05.05.2022 Version number 3 Revision: 05.05.2022

Trade name: eTECTX Series Resists

(Contd. of page 4)

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and containers:

Store in a cool location.

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
- · Additional information about design of technical facilities: No further data; see item 7.
- · 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
- · 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.

· 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

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 6)

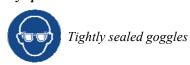


Printing date 05.05.2022 Version number 3 Revision: 05.05.2022

Trade name: eTECTX Series Resists

· Eye protection:

(Contd. of page 5)



| 9.1 Information on basic physical and cl | hemical properties |
|--|--|
| General Information | icinicai proportios |
| Appearance: | |
| Form: | Liquid |
| Colour: | Clear to light yellow |
| Odour: | Sweetish |
| Odour threshold: | Not determined. |
| pH-value: | Not determined. |
| Change in condition | |
| Melting point/freezing point: | Undetermined. |
| Initial boiling point and boiling range: | 130 °C |
| Flash point: | 30 °C |
| Flammability (solid, gas): | Not applicable. |
| Ignition temperature: | <i>430 ℃</i> |
| Decomposition temperature: | Not determined. |
| Auto-ignition temperature: | Product is not selfigniting. |
| Explosive properties: | Product is not explosive. However, formation of explosive air/vapamixtures are possible. |
| Explosion limits: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Vapour pressure: | Not determined. |
| Density: | Not determined |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| Evaporation rate | Not determined. |
| Solubility in / Miscibility with | |
| water: | Not miscible or difficult to mix. |
| Partition coefficient: n-octanol/water: | Not determined. |
| Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |



Printing date 05.05.2022 Version number 3 Revision: 05.05.2022

Trade name: eTECTX Series Resists

(Contd. of page 6)

• 9.2 Other information No further relevant information available.

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 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

Danger of forming toxic pyrolysis products.

Corrosive gases/vapours

Antimony oxide

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

| LD/LC50 | LD/LC50 values relevant for classification: | | |
|--|---|------------------------|--|
| Proprietary epoxy resin M1 | | | |
| Oral | LD50 | >2000 mg/kg (Rat) | |
| Dermal | LD50 | >2000 mg/kg (Rat) | |
| Epoxy Compound | | | |
| Oral | LD50 | 8030 mg/kg (Rat) | |
| Dermal | LD50 | 4248 mg/kg (Rat) | |
| Inhalative | LC50/4 h | > 5.3 mg/l (Rat) | |
| Proprietar | y Epoxy Resin | | |
| Oral NOEL 28 day repeated dose 250 mg/kg/day (Rat) | | | |
| 120-92-3 | Cyclopentanone | | |
| Oral | LD50 | 1820 mg/kg (Rat) | |
| Dermal | LD50 | >2000 mg/kg (rabbit) | |
| Inhalative | LC50/4 h | 19.5 mg/l (Rat) | |
| Proprietar | y epoxy resin M1 | | |
| Oral | LD50 | >2000 mg/kg (Rat) | |
| Dermal | LD50 | >2000 mg/kg (Rat) | |
| 108-32-71 | Propylene carbonate | • | |
| Oral | LD50 | >29000 mg/kg (Rat) | |
| Dermal | LD50 | >20,000 mg/kg (rabbit) | |

(Contd. on page 8)



Printing date 05.05.2022 Version number 3 Revision: 05.05.2022

Trade name: eTECTX Series Resists

(Contd. of page 7)

· Specific symptoms in biological assay:

Formaldehyde, polymer with (chloromethyl)oxirance and 4,4'-(1-methylethylidene)bis[phenol] CAS 28906-06-9: This material was mutagenic in the Ames bacterial assay and showed a positive result in a mammalian cell chromosomal aberration test.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (CAS 2530-83-8):

This material was weakly mutagenic in the Ames test, mouse lymphoma assay, and an in vitro sister chromatid exchange test; however results of in vivo genotoxicity studies have shown mixed results. Repeated exposure of rats or rabbits to this material did not result in an increase in sister chromatid exchange, while single exposures of mice to a hydrosylate of this materials resulted in a signficant increase in micronucleated polychromatic erythrocytes. The potential releavance to humans is unknown; however, it is ulikely that this material presents a significant genotoxic hazard, in that it lacks any local tumorigneic response the the chronic recurrent application to mouse skin.

Formaldehyde, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol] CAS 28906-96-9: This material was mutagenic in the Ames bacterial assay and showed a positive result in a mammalian cell chromosomal aberration test.

- · 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.

- Experience with humans: No further relevant information available.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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

May cause damage to organs through prolonged or repeated exposure.

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

SECTION 12: Ecological information

· 12.1 Toxicity

| 12.1 102101 | , | |
|----------------|---|--|
| · Aquatic toxi | city: | |
| 89452-37-9 | Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-,(OC-6-11)-hexafluoroantimonate (1-) (1:2) | |
| LC50/24 h | 4.4 mg/l (daphnia) | |
| LC50/48 hr | 0.68 mg/L (daphnia) | |
| 71449-78-0 | Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1) | |
| LC50/24 h | 4.4 mg/l (daphnia) | |
| LC50/48 hr | 0/48 hr 0.68 mg/L (daphnia) | |
| Epoxy Comp | oound | |
| EC50/48 h | 30 mg/l (daphnia magna) | |
| EC50/72 h | 255 mg/l (Desmodesmus subscipatus (green algae)) | |
| LC50/96 h | 55 mg/l (Cyprinus carpio (common carp)) | |
| | | |

(Contd. on page 9)



Printing date 05.05.2022 Version number 3 Revision: 05.05.2022

Trade name: eTECTX Series Resists

| | (Contd. of page | |
|--|---|--|
| 120-92-3 Cy | oclopentanone | |
| EC50/48 h | 3600 mg/l (Ceriodaphnia dubia (water flea)) | |
| | 100 mg/l (daphnia magna) | |
| EC50/72 h | >100 mg/l (scenedesmus subspicatus) | |
| LC50/48 hr | 2950 mg/L (golden orfe) | |
| LC50/96 h | >100 mg/l (fish) | |
| Proprietary | Epoxy Resin | |
| LC50/96 h | >0.31 mg/l (algae) | |
| | >0.31 mg/l (Water flea) | |
| NOEC/96 h | $\geq 0.99 \text{ mg/l (algae)}$ | |
| 108-32-7 Pr | opylene carbonate | |
| EC50/17 h | >10000 mg/l (Pseudomonas putida) | |
| EC50/48 h | EC50/48 h >500 mg/l (daphnia magna) | |
| EC50/72 h >500 mg/l (scenedesmus subspicatus) | | |
| LC50/96 h | LC50/96 h 2200 mg/l (Leuciscus idus) | |

- · 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.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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
- · ADR, IMDG, IATA

UN1866

(Contd. on page 10)



Printing date 05.05.2022 Version number 3 Revision: 05.05.2022

Trade name: eTECTX Series Resists

| ADR, IATA IMDG RESIN SOLUTION, MARINE POLLUTANT 14.3 Transport hazard class(es) ADR, IMDG, IATA Class Label 3 14.4 Packing group ADR, IMDG, IATA III 14.5 Environmental hazards: Product contains environmentally hazardous substance Formaldehyde, polymer with (chloromethyl)oxirane and 4, (1-methylethylidene)bis[phenol] Yes 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category A 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (LQ) Excepted quantities (EQ) Transport category Trans | | (Contd. of page |
|--|---|---|
| Class 3 Flammable liquids. Label 3 III 14.4 Packing group ADR, IMDG, IATA III 14.5 Environmental hazards: Product contains environmentally hazardous substance Formaldehyde, polymer with (chloromethyl)oxirane and 4, (1-methylethylidene)bis[phenol] Yes Marine pollutant: Yes 14.6 Special precautions for user Warning: Flammable liquids. 30 EMS Number: F-E,S-D Stowage Category A 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Transport/Additional information: ADR 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 Transport category 3 Tunnel restriction code D/E IMDG Limited quantities (LQ) 5L Excepted quantities (LQ) 6L Excepted quantiti | 14.2 UN proper shipping name ADR, IATA IMDG | |
| Class Label 3 14.4 Packing group ADR, IMDG, IATA III 14.5 Environmental hazards: Product contains environmentally hazardous substance Formaldehyde, polymer with (chloromethyl)oxirane and 4, (1-methylethylidene)bis[phenol] Yes 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category A 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category A 14.7 Transport category SL Excepted quantities (LQ) Excepted quantities (EQ) Transport category SL Excepted quantities (LQ) Excepted quantities (LQ) SL Excepted quantities (LQ) Except | 14.3 Transport hazard class(es) | |
| Class Label 3 14.4 Packing group ADR, IMDG, IATA III 14.5 Environmental hazards: Product contains environmentally hazardous substance Formaldehyde, polymer with (chloromethyl)oxirane and 4, (1-methylethylidene)bis[phenol] Yes 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category A 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category A 14.7 Transport category SL Excepted quantities (LQ) Excepted quantities (EQ) Transport category SL Excepted quantities (LQ) Excepted quantities (LQ) SL Excepted quantities (LQ) Except | ADR, IMDG, IATA | |
| Label 3 14.4 Packing group ADR, IMDG, IATA III 14.5 Environmental hazards: Product contains environmentally hazardous substance Formaldehyde, polymer with (chloromethyl)oxirane and 4, (1-methylethylidene)bis[phenol] Yes 14.6 Special precautions for user Warning: Flammable liquids. 14.6 Special precautions for user Warning: Flammable liquids. 15. EMS Number: F-E,S-D Stowage Category A 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. Transport/Additional information: ADR Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml Maximum net quantities (LQ) 5L Excepted quantities (LQ) 5D Excepted quantities | | |
| ADR, IMDG, IATA III 14.5 Environmental hazards: Product contains environmentally hazardous substance Formaldehyde, polymer with (chloromethyl)oxirane and 4, (1-methylethylidene)bis[phenol] Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category A 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Transport category Transport category Transport category Transport category Tunnel restriction code IMDG Limited quantities (LQ) Limited quantities (LQ) A SL Code: E1 Maximum net quantity per inner packaging: 1000 ml Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 1000 ml | Class Label | |
| Marine pollutant: Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Marine quantities (LQ) Excepted quantities (EQ) Transport category 15. Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 1000 ml | 14.4 Packing group ADR, IMDG, IATA | III |
| 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category A 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category 3 Tunnel restriction code D/E IMDG Limited quantities (EQ) Excepted quantities (EQ) A Warning: Flammable liquids. 30 Warning: Flammable liquids. 40 Warning: Flammable liquids. 30 Warning: Flammable liquids. 40 Warning: Plameted Warning: Flammable liquids. 40 Warning: Plameted Warning: Pauketed Warning: Plameted Warning: Plamet | 14.5 Environmental hazards: | Product contains environmentally hazardous substance Formaldehyde, polymer with (chloromethyl)oxirane and 4,4 (1-methylethylidene)bis[phenol] |
| Hazard identification number (Kemler code): 30 EMS Number: F-E,S-D Stowage Category A 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. Transport/Additional information: ADR Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml Transport category 3 Tunnel restriction code D/E IMDG Limited quantities (LQ) 5L Excepted quantities (EQ) 5L Excepted quantities (LQ) 5L Excepted quantities (LQ) 5L Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml | Marine pollutant: | |
| EMS Number: Stowage Category A 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code IMDG Limited quantities (LQ) Excepted quantities (LQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml Tansport category Tunnel restriction code IMDG Limited quantities (LQ) Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml | 14.6 Special precautions for user | • |
| Stowage Category 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Transport category Transport category Transport category Transport category Tunnel restriction code IMDG Limited quantities (LQ) Excepted quantities (EQ) The Code: E1 Maximum net quantity per outer packaging: 1000 ml SL Excepted quantities (LQ) Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml | | |
| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. Transport/Additional information: ADR Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml Transport category 3 Tunnel restriction code D/E IMDG Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml | | |
| Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code Limited quantities (LQ) Excepted quantities (LQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml D/E IMDG Limited quantities (LQ) Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml | 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | |
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| Tunnel restriction code D/E IMDG Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml | Transport category | |
| Limited quantities (LQ) Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml | Tunnel restriction code | - |
| Limited quantities (LQ) Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml | IMDG | |
| Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml | Limited quantities (LQ) | 5L |
| Maximum net quantity per outer packaging: 1000 ml | Excepted quantities (EQ) | |
| | | |
| | IIN "Model Decadation". | |

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture None identified
- · Directive 2012/18/EU
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t



Printing date 05.05.2022 Version number 3 Revision: 05.05.2022

Trade name: eTECTX Series Resists

(Contd. of page 10)

- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 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.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

· 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.

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

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

Skin Sens. 1: Skin sensitisation – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

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