

Printing date 03/30/2020

1 Identification

· Product identifier

- Trade name: UV-2530 UV Curable Matte Dielectric
- · Application of the substance / the mixture Functional electronic insulating ink
- Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Kayaku Advanced Materials, Inc. 200 Flanders Road Westborough, MA 01581 Tel: (617) 965-5511 Fax: (617) 965-5818

- Information department: Product Safety Email: productsafety@kayakuAM.com • Emergency telephone number:
- Kayaku Advanced Materials : <u>617-965-5511</u> Chemtrec USA Emergency : <u>800-424-9300</u> Chemtrec International Emergency : <u>703-527-3887</u>

2 Hazard(s) identification

· Classification of the substance or mixture

GHS08 Health hazard

H351 Suspected of causing cancer.

GHS07

Carc. 2

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2A	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335	May cause respiratory irritation.
Flam. Liq. 4	H227	Combustible liquid.
Aquatic Acute 2	H401	Toxic to aquatic life.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

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Results of PBT and vPvB assessment PBT: Not applicable.		accountry v			
PBT: Not applicable.	Other hazards	and NDND approximant			
D. D. Material and I.					
PvB: Not applicable.	vPvB: Not appli	icable.			

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

(Contd. on page 3)

[—] US



Reviewed on 03/30/2020

Printing date 03/30/2020

Trade name: UV-2530 UV Curable Matte Dielectric

Dangerous (components:	
	Urethane acrylate oligomer	40-60%
	𝐼 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317	
	Proprietary Resin	25-50%
	🐼 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; Flam. Liq. 4, H227	
14807-96-6	Talc (Mg3H2(SiO3)4)	10-25%
	🗞 Carc. 2, H351	
	Proprietary photoinitiator	1-5%
	I Aquatic Acute 1, H400; Aquatic Chronic 2, H411	
	Acrylic leveling agent	1-5%
	🐼 Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
	Proprietary Dye	<1%
	() Eye Irrit. 2A, H319; Skin Sens. 1A, H317	
119-61-9	Benzophenone	<1%
	Sarc. 2, H351; 🚱 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air and to be sure call for a doctor.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

Wash eyes immediately with a large amount of water or normal saline, occasionally lifting upper and lower eye lids until no evidence of chemical remains (about 20 minutes). Remove contact lenses if present and easy to remove. Seek immediate medical attention.

· After swallowing:

Do not induce vomiting unless instructed to do so by a physician. Wash out mouth with water and keep person at rest. Seek immediate medical attention.

• Information for doctor:

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed Treat symptomatically.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- Alcohol resistant foam
- Fire-extinguishing powder
- ABC powder
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- Protective equipment: Wear SCBA.

(Contd. on page 4)



Printing date 03/30/2020

Reviewed on 03/30/2020

Trade name: UV-2530 UV Curable Matte Dielectric

(Contd. of page 3)

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
 Ensure adequate ventilation
 Keep away from ignition sources
 Wear protective equipment. Keep unprotected persons away.

 Environmental precautions:
 Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up:
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dispose contaminated material as waste according to Section 13.
 Ensure adequate ventilation.
 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.

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Ensure good ventilation/exhaust at the workplace. Open and handle container with care. Prevent formation of aerosols.
- *Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and containers: No special requirements.
- Information about storage in one common storage facility: Store away from reducing agents.
- Store away from oxidizing agents.
- Further information about storage conditions: Keep container well-sealed in cool, dry location. Protect from heat and direct sunlight. Store receptacle in a well ventilated area.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- Components 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 that were valid during the creation were used as basis.

(Contd. on page 5)

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Printing date 03/30/2020

Reviewed on 03/30/2020

Trade name: UV-2530 UV Curable Matte Dielectric

(Contd. of page 4)

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. Store protective clothing separately. Avoid contact with the eyes and skin.
Respiratory equipment: In case of low exposure, use cartridge respirator. In case of intensive or longer exposure, use SCBA.
Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves Nitrile rubber, NBR

- $\cdot \textit{Penetration time of glove material Contact glove manufacture for break-through time.}$
- Eye protection:



Tightly sealed goggles

Information on basic physical and	chemical properties	
General Information		
Appearance:	T · · · 1	
Form:	Liquid	
Color:	Matte Green, Blue, Clear	
Odor:	Sweet	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	93 °C (199.4 °F)	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	



Reviewed on 03/30/2020

Printing date 03/30/2020

Trade name: UV-2530 UV Curable Matte Dielectric

		(Contd. of page .
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density:	See other information	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	1.6-2.3 (BuAc=1)	
Solubility in / Miscibility with		
Water:	Water miscible No	
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Solids content:	100 %	
Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability Stable

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Contact with incompatible materials.

· Incompatible materials: Strong Oxidizing Agents, Strong Acids, Strong Bases

· Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

• Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: Irritating effect.

• Sensitization: Sensitization possible through skin contact.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

14807-96-6 Talc (Mg3H2(SiO3)4)

119-61-9 Benzophenone

(Contd. on page 7)

2B

2B

(Contd. of page 6)



Safety Data Sheet acc. to OSHA HCS

Printing date 03/30/2020

Reviewed on 03/30/2020

Trade name: UV-2530 UV Curable Matte Dielectric

· NTP (National Toxicology Program)

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information

· Toxicity

· Aquatic toxicity:

Proprietary photoinitiator

EC50/48 h 26 mg/l (daphnia magna)

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · *Bioaccumulative potential* No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Ecotoxical effects:
- Remark: Toxic for fish
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

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

Toxic for aquatic organisms

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

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of as regular garbage/trash. Do not allow product to reach sewage system. Disposal must be made in accordance with Federal, State, and Local regulations.

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

14 Transport information

· UN-Number · DOT, ADR, IMDG, IATA

UN3082

(Contd. on page 8)

[·] Uncleaned packagings:



Printing date 03/30/2020

Reviewed on 03/30/2020

	(Contd. of page
UN proper shipping name DOT, ADR	Environmentally hazardous substances, liquid, n.o.s. (2,
IMDG	dimethoxy-2-phenylacetophenone, Benzophenone) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIN N.O.S. (2,2-dimethoxy-2-phenylacetophenone, Benzophenone MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIN N.O.S. (2,2-dimethoxy-2-phenylacetophenone, Benzophenone)
Transport hazard class(es)	
DOT, ADR, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group DOT, ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant:	Product contains environmentally hazardous substance Omnirad BDK Yes (DOT)
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Miscellaneous dangerous substances and articles
	л
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml
UN "Model Regulation":	Maximum net quantity per outer packaging: 1000 ml UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (2, 2 - DIMETHOXY-2 PHENYLACETOPHENONE, BENZOPHENONE), 9, III

(Contd. on page 9)

US



Printing date 03/30/2020

Reviewed on 03/30/2020

Trade name: UV-2530 UV Curable Matte Dielectric

(Contd. of page 8)

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act): All ingredients are listed or comply with TSCA regulations. • Proposition 65

• Chemicals known to cause cancer:

119-61-9 Benzophenone

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

• Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients are listed.

• TLV (Threshold Limit Value established by ACGIH)

14807-96-6 Talc (Mg3H2(SiO3)4)

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

· New Jersey State Right To Know List

119-61-9 Benzophenone

· Pennsylvania Hazardous Substances List

119-61-9 Benzophenone

· California SCAQMD Rule 443.1 VOC's: No information available.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

· Hazard-determining components of labeling:

Proprietary Resin

· Hazard statements

H227 Combustible liquid. H315 Causes skin irritation.

(Contd. on page 10)

A4



Printing date 03/30/2020

Reviewed on 03/30/2020

Trade name: UV-2530 UV Curable Matte Dielectric

	(Contd. of page 9)
H319 Causes serie	ous eye irritation.
H317 May cause a	an allergic skin reaction.
H351 Suspected of	f causing cancer.
H335 May cause	respiratory irritation.
H401 Toxic to aqu	uatic life.
H412 Harmful to	aquatic life with long lasting effects.
· Precautionary sta	tements
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P302+P352	If on skin: Wash with plenty of soap and water.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for
	breathing.
P305+P351+P33	8 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.
NT / T / T / T / T	

· National regulations:

• Other regulations, limitations and prohibitive regulations

Kayaku Advanced Materials has confirmed with our precious metal suppliers that they do not use conflict minerals, as outlined in the Dodd-Frank Wall Street Reform and Consumer Protection Act in Title XV, Section 1502.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product safety department
- · Contact: Tom Cole, EHS Manager (tcole@kayakuAM.com)
- Revision History: The manufacturer's information in Section 1 has been updated.
- Date of preparation / last revision 03/30/2020 / 2
- Abbreviations and acronyms:
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 11)



Printing date 03/30/2020

Reviewed on 03/30/2020

Trade name: UV-2530 UV Curable Matte Dielectric

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 4: Flammable liquids – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1A: Skin sensitisation – Category 1A Skin Sens. 1B: Skin sensitisation – Category 1B Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 2 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	(Contd. of page 10)
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2	