

Printing date 01/23/2020

Reviewed on 01/23/2020

1 Identification

- · Product identifier
- Trade name: UV-1055 UV Curable Matte Fluorescing Dielectric
- · Application of the substance / the mixture Functional electronic insulating ink
- \cdot Details of the supplier of the safety data sheet
- *Manufacturer/Supplier:* Applied Ink Solutions 200 Flanders Road Westborough, MA 01581 USA

 Information department: sales@appliedinksolutions.com
 Emergency telephone number: Applied Ink Solutions : 617-965-5511 Chemtrec USA Emergency : 800-424-9300 (24 hr) Chemtrec International Emergency : 703-527-3887 (24 hr)

2 Hazard(s) identification

•	Classification	of the	substance	or	mixture	
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GHS08 Health hazard

Muta. 1BH340 May cause genetic defects.Carc. 1BH350 May cause cancer.

GHS	07
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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.
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 Danger

• Hazard-determining components of labeling: Urethane acrylate oligomer Dipentaerythritol pentaacrylate esters Talc (Mg3H2(SiO3)4) Proprietary Defoamer

(Contd. on page 2)

[–] US



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 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+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if presen 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. P403+P233 Store in a well-ventilated place. Keep container tightly closed. 		(Contd. of page 1
H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H340 May cause genetic defects. H350 May cause cancer. H355 May cause respiratory irritation. H401 Toxic to aquatic life with long lasting effects. Precautionary statements 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. H302+P351 If swallowed: Immediately call a poison center/doctor. P301+P310 If swallowed: Immediately call a poison center/doctor. P302+P352 If on skin: Wash with plenty of soap and water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351 H7338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If sever: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing. P333+P313 If severitation persists: Get medical advice/attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/internationa regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 1 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 Fire = 1 Reactivity = 0 Other hazards Results of PBT and vPVB assessment PBT: Not applicable.		
H317 May cause an allergic skin reaction. H340 May cause genetic defects. H350 May cause respiratory irritation. H401 Toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P273 Avoid release to the environment. P300 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+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If ne yess: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing. P333+P313 If seve irritation or rash occurs: Get medical advice/attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/internationa regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 1 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 2 Fire = 1 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
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3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

	Urethane acrylate oligomer	40-60%
	🐼 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317	
60506-81-2	Dipentaerythritol pentaacrylate esters � Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; Flam. Liq. 4, H227	25-50%



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14807-96-6	Talc (Mg3H2(SiO3)4)	5-15%
	😵 Carc. 2, H351	
24650-42-8	2,2-dimethoxy-2-phenylacetophenone	1-5%
	🕸 Aquatic Acute 1, H400; Aquatic Chronic 2, H411	
	Acrylic leveling agent	1-5%
	𝔆 Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
119-61-9	Benzophenone	<1%
	Scarc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	Proprietary Defoamer	<1%
Additional	Components:	

4 First-aid measures

- · 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:

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)



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(Contd. of page 3)

	precautions, protective equipment and emergency procedures		
	tective equipment. Keep unprotected persons away.		
	dequate ventilation		
	ay from ignition sources		
	nental precautions:		
	espective authorities in case of seepage into water course or sewage system.		
	llow to enter sewers/ surface or ground water.		
	and material for containment and cleaning up: Ensure adequate ventilation.		
	e to other sections		
	See Section 7 for information on safe handling.		
See Section 8 for information on personal protection equipment.			
See Secti	on 13 for disposal information.		
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See Secti	on 13 for disposal information.		
See Section • Protectiv • PAC-1:	on 13 for disposal information.	1.5 mg/m	
See Section • Protectiv • PAC-1: 119-61-9	on 13 for disposal information. e Action Criteria for Chemicals	-	
See Section • Protectiv • PAC-1: 119-61-9	on 13 for disposal information. e Action Criteria for Chemicals Benzophenone	-	
See Section • Protective • PAC-1: 119-61-9 546-93-0 • PAC-2:	on 13 for disposal information. e Action Criteria for Chemicals Benzophenone	45 mg/m.	
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7 Handling and storage

· Handling:

- Precautions for safe handling Ensure good ventilation/exhaust at the workplace. Open and handle container with care.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respirator available.
- · 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:* Do not store together with oxidizing and acidic materials. Store away from reducing 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.
- \cdot Specific end use(s) No further relevant information available.

(Contd. on page 5)

US



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(Contd. of page 4)

8 Exposure controls/personal protection

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

· Control parameters

 \cdot Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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

- PELLong-term value: 20 mppcf ppm
(containing <1% Quartz)</th>RELLong-term value: 2* mg/m³
*respirable dust; and <1% Quartz</th>
- *TLV Long-term value:* 2* mg/m³ *as respirable fraction; E

119-61-9 Benzophenone

WEEL Long-term value: 0.5 mg/m³

- Additional information: The lists that were valid during the creation were used as basis.
- · 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:



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 Contact glove manufacture for break-through time.
- Eye protection:



Tightly sealed goggles

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Information on basic physical and	chemical properties	
General Information		
Appearance:	T :: J	
Form: Color:	Liquid Hazy	
Color: Odor:	Hazy Sweet	
Odor: Odor threshold:	Sweet Not determined.	
pH-value:	Not applicable.	
•		
Change in condition	Undetermined.	
Melting point/Melting range:	Undetermined. Undetermined.	
Boiling point/Boiling range:		
Flash point:	93 °C (199.4 °F)	
Flammability (solid, gaseous):	Not determined.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density:	See other information	
Relative density	Not determined.	
Vapor density	2.6 (air=1)	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/wat	t er): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0 %	
Solids content:	100.0 %	
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.

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· 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:

· LD/LC50 values that are relevant for classification:

Proprietary Defoamer

Oral	LD50	> 6000 mg/kg (Rat)
Dermal	LD50	> 3000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 7.8 mg/l (Rat)

· 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.

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

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

119-61-9 Benzophenone

· 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:

24650-42-8 2,2-dimethoxy-2-phenylacetophenone

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

· Persistence and degradability No further relevant information available.

· Behavior in environmental systems:

 $\cdot \textit{Bioaccumulative potential} \ \textit{No further relevant information available}.$

• *Mobility in soil* No further relevant information available.

· Ecotoxical effects:

• Remark: Toxic for fish

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Trade name: UV-1055 UV Curable Matte Fluorescing Dielectric

• Additional ecological information:

· General notes:

Water hazard class 2 (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. 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.

· Uncleaned packagings:

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

4 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Not Regulated	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Not Regulated	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Not Regulated	
· Packing group · DOT, ADR, IMDG, IATA	Not Regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
· UN "Model Regulation":	Not Regulated	

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.

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• 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.

· 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 Danger

0	•		
· Hazard-dete	ermining components of labeling:		
Urethane ac	crylate oligomer		
Dipentaeryt	hritol pentaacrylate esters		
Talc (Mg3H	I2(SiO3)4)		
Proprietary	Defoamer		
· Hazard stat			
H315 Cause	es skin irritation.		
H319 Cause	es serious eye irritation.		
H317 May c	cause an allergic skin reaction.		
H340 May c	cause genetic defects.		
H350 May c	cause cancer.		
H335 May c	cause respiratory irritation.		
H401 Toxic	to aquatic life.		
H412 Harm	ful to aquatic life with long lasting effects.		
· Precautiond	ary statements		
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.		
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P301+P310	If swallowed: Immediately call a poison center/doctor.
P302+P352	If on skin: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. *Exceptions can be made by the authorities in certain cases.*

· Other regulations, limitations and prohibitive regulations

RoHS (*EU*)2015/863 along with *EU* Directive 2022/19/*EU* – Waste from Electrical and Electronic Equipment (WEEE):

Applied Ink Solutions products do not exceed the amount of allowable levels concerning: Cadmium (Cd); Mercury (Hg); Lead (Pb); Hexavalent chromium (Cr6+); Polybrominated biphenyls (PBB); Polybrominated diphenyl ethers (PBDE); Bis(2-Ethylhexyl) phthalate (DEHP); Benzyl butyl phthalate (BBP); Dibutyl phthalate (DBP); Diisobutyl phthalate (DIBP).

Applied Ink Solutions 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.

Registration, Evaluation and Authorization of Chemicals (REACH) & Substances of Very High Concern (SVHC): This product does not contain substances on the SVHC list.

· 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, the product hazard information in Section 2 and the component hazard information in Section 3 have been updated.

- Date of preparation / last revision 01/23/2020 / 1
- 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic	
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. 3: Flammable liquids – Category 3	
Flam. Liq. 4: Flammable liquids – Category 4	
Acute Tox. 3: Acute toxicity – Category 3	
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. 1B: Skin sensitisation – Category 1B	
Muta. 1B: Germ cell mutagenicity – Category 1B	
Carc. 1B: Carcinogenicity – Category 1B	
Carc. 2: Carcinogenicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
Asp. Tox. 1: Aspiration hazard – Category 1	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2	
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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
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