

# Safety Data Sheet

Issue date 25-Jul-2016 (DD-MMM-YYYY)

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product name** I N K J E T I N K J U T W H I T E

**Product Name (English)** I N K J E T I N K J U T W H I T E

**Recommended Use** Ink jet ink (UV curing)

**H- Product code** 018969

**E- Product code** S6082247-LWCE02S7-LWCE02S7

**Company Name** Importer / Supplier

Universal Phaeton Digital Equipment Ltd. -  
Huiyang Economic Development Zone,  
Huizhou City, GuangDong, China  
+86 752 3737218

**Emergency telephone** -

**Email address** -

## SECTION 2: Hazards identification

### GHS - Classification

Acute toxicity - Oral	Category 4
skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1B
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

### Label Elements

#### Pictogram



**Signal Word**

DANGER

#### **hazard statements**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H317 - May cause an allergic skin reaction

H361 - Suspected of damaging fertility or the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Avoid release to the environment

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 Specific treatment

**skin**

IF ON SKIN: Wash with plenty of soap and water  
 Take off contaminated clothing and wash before reuse  
 If skin irritation or rash occurs: Get medical advice/attention

**eye**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician

**INGESTION**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth

**Spill**

Collect spillage

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

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

**Single Substance or Mixture**                      mixture

**Recommended Use**                                      Ink jet ink (UV curing)

**Ingredients contributing to the classification of the mixture, etc.**

Chemical name	CAS No	weight-%
2-Propenoic acid, phenylmethyl ester	2495-35-4	10-20
Titanium dioxide	13463-67-7	10-20
2H-Azepin-2-one, 1-ethenylhexahydro-	2235-00-9	10-20
2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester	7328-17-8	10-20
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	75980-60-8	10-20
Morpholine, 4-(1-oxo-2-propenyl)-	5117-12-4	10-20
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	5888-33-5	5-10

**SECTION 4: First aid measures**

<b>General advice</b>	<p>Immediate medical attention is required                  If symptoms persist, call a physician                  Do not breathe dust/fume/gas/mist/vapors/spray                  Do not get in eyes, on skin, or on clothing                  May produce an allergic reaction</p>
<b>Inhalation</b>	<p>Remove to fresh air                  Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation                  Seek immediate medical attention/advice                  If breathing is irregular or stopped, administer artificial respiration                  Move to fresh air in case of accidental inhalation of vapors                  If symptoms persist, call a physician                  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing                  IF INHALED: Call a POISON CENTER or doctor if you feel unwell</p>
<b>Skin contact</b>	<p>Immediate medical attention is required                  Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes                  Wash contaminated clothing before reuse                  Wash off immediately with soap and plenty of water                  If skin irritation persists, call a physician                  Get medical attention if irritation develops and persists</p>
<b>Eye Contact</b>	<p>Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes                  Keep eye wide open while rinsing                  Call a physician immediately                  Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes                  If symptoms persist, call a physician                  If eye irritation persists: Get medical advice/attention</p>
<b>INGESTION</b>	<p>Do NOT induce vomiting                  Clean mouth with water and drink afterwards plenty of water                  Never give anything by mouth to an unconscious person                  Call a physician or poison control center immediately                  Call a physician                  Potential for aspiration if swallowed                  Get medical attention                  Clean mouth with water</p>
<b>Self-protection of the first aider</b>	<p>Use personal protection recommended in Section 8                  Avoid contact with skin, eyes or clothing</p>
<b>Note to physicians</b>	<p>May cause sensitization of susceptible persons                  Treat symptomatically</p>

<b>SECTION 5: Fire fighting measures</b>
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<b>Suitable extinguishing media</b>	<p>CO2, dry chemical, dry sand, alcohol-resistant foam, mist of alkali salts water                  Move containers from fire area if you can do it without risk                  Use extinguishing measures that are appropriate to local circumstances and the surrounding environment                  Remove combustible materials from their surroundings immediately</p>
<b>Specific hazards arising from the chemical</b>	<p>In the event of fire and/or explosion do not breathe fumes                  May cause sensitization by inhalation and skin contact                  Thermal decomposition can lead to release of irritating and toxic gases and vapors                  The product causes irritation of eyes, skin and mucous membranes</p>

<b>Special protective equipment for fire-fighters</b>	Wear self contained breathing apparatus for fire fighting if necessary Use personal protective equipment as required In the event of fire and/or explosion do not breathe fumes Special protective equipment for fire-fighters
<b>Flammable properties</b>	May re-ignite after fire is extinguished Flammable/combustible material
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire
<b>Special Extinguishing Media</b>	Cool container with water spray

## SECTION 6: Accidental release measures

<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so Prevent product from entering drains Do not flush into surface water or sanitary sewer system See Section 12 for additional Ecological Information Dispose of contents/container to an approved waste disposal plant Avoid release to the environment Collect spillage
<b>Methods for cleaning up</b>	Cover liquid spill with sand, earth or other non-combustible absorbent material Cover powder spill with plastic sheet or tarp to minimize spreading Sweep up and shovel into suitable containers for disposal Soak up with inert absorbent material Dam up Pick up and transfer to properly labeled containers Use only non-sparking tools
<b>Personal precautions</b>	Use personal protective equipment as required Keep people away from and upwind of spill/leak Evacuate personnel to safe areas Stay upwind ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Avoid contact with skin, eyes and inhalation of vapors In the case of vapor formation use a respirator with filter model In case of fire: Stop leak if safe to do so Do not touch damaged containers or spilled material unless wearing appropriate protective clothing Ensure adequate ventilation, especially in confined areas Take precautionary measures against static discharges
<b>OTHER INFORMATION</b>	Ventilate the area
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so Cover powder spill with plastic sheet or tarp to minimize spreading Dike far ahead of liquid spill for later disposal

## SECTION 7: Handling and storage

**Advice on safe handling**

- Avoid contact with skin, eyes or clothing
- Wash contaminated clothing before reuse
- Do not eat, drink or smoke when using this product
- Use personal protection recommended in Section 8
- Do not breathe dust/fume/gas/mist/vapors/spray
- Use with local exhaust ventilation
- Take precautionary measures against static discharges
- Use only in well-ventilated areas
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
- Wash hands thoroughly and gargle after handling
- Burn or dispose of the wiping cloths used to clean up the product at once

**General hygiene considerations**

- When using do not eat, drink or smoke
- Regular cleaning of equipment, work area and clothing is recommended
- Avoid contact with skin, eyes or clothing
- Wash hands thoroughly after handling
- Keep away from food, drink and animal feeding stuffs

**Storage Conditions**

- Keep containers tightly closed in a dry, cool and well-ventilated place
- Keep out of the reach of children
- Keep in properly labeled containers
- Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)
- Use spark-proof tools and explosion-proof equipment
- Incompatible with oxidizing agents
- The product shall be stored in the original containers/vessels
- Polymerization is caused by ultra violet rays or heat. Store in a cool, dark and well-ventilated place. Containers/vessels should be tightly closed

**SECTION 8: Exposure controls/personal protection**

**Exposure Limits** No information available

Chemical name	China	Japan	ACGIH TLV	OSHA PEL
Titanium dioxide	TWA: 8 mg/m <sup>3</sup> total dust STEL: 16 mg/m <sup>3</sup> total dust	0.3 mg/m <sup>3</sup> (Provisional)	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust

**Engineering controls**

- Ensure adequate ventilation, especially in confined areas
- Showers
- Eyewash stations
- Ventilation systems

**Personal protective equipment (PPE)**

**Respiratory protection**

- In case of insufficient ventilation, wear suitable respiratory equipment
- Respirator cartridge should be exchanged at regular intervals or at proper time according to breakthrough time

**Hand protection**

- Wear protective gloves

**Eye/face Protection**

- Tight sealing safety goggles
- Face protection shield
- Wear safety glasses with side shields (or goggles)

**Skin and Body Protection**

- Suitable protective clothing
- Gloves made of plastic or rubber
- Wear suitable protective clothing
- Apron
- Protective shoes or boots

**SECTION 9: Physical and chemical properties**

**Physical state** liquid  
**color** colored  
**ODR** characteristic odor  
**odor threshold** no data available

<u>Property</u>	<u>Values</u>	<u>Remarks • Flash point measuring method</u>
<b>pH</b>	Not applicable	
<b>Melting point/freezing point</b>	no data available	
<b>Boiling point/boiling range</b>	no data available	No information available
<b>Flash Point</b>	≥ 94°C	Seta Closed Cup
<b>Evaporation Rate</b>	no data available	No information available
<b>Combustibility</b>	no data available	
<b>explosive limits</b>		
<b>Explosive upper limit</b>	no data available	
<b>Explosive lower limit</b>	no data available	
<b>vapor pressure</b>	no data available	No information available
<b>Vapor density</b>	no data available	No information available
<b>Specific gravity</b>	1.10-1.20	
<b>solubility(ies)</b>		
<b>Water solubility</b>	Immiscible in water	
<b>Organic Solvent Solubility</b>	soluble in organic solvents	
<b>Partition coefficient</b>	no data available	No information available
<b>Autoignition temperature</b>	no data available	No information available
<b>decomposition temperature</b>	no data available	No information available

Chemical name	Boiling point °C	density	Vapor pressure	Vapor density	Flash Point	Autoignition temperature
2-Propenoic acid, phenylmethyl ester	228 °C 1013.25 hPa	1.0573 g/cm3 at 20 °C	-	-	-	-
Titanium dioxide	2500 - 3000 °C	3.9 - 4.1 g/cm3	-	-	-	-

**SECTION 10: Stability and reactivity**

**stability** Stable under normal conditions

**Explosion data**

**Sensitivity to Mechanical Impact** May be ignited by heat, sparks or flames  
**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames

**Possibility of hazardous reactions** None under normal processing

**Conditions to Avoid** Take precautionary measures against static discharges  
 Extremes of temperature and direct sunlight  
 Heat

**Incompatible Materials** Heat  
 Strong acids  
 OXIDIZERS  
 alkali  
 Light  
 peroxides  
 radical initiators

**Hazardous decomposition products** May emit toxic fumes under fire conditions

**hazardous polymerization** None under normal processing

**stability** Stable under normal conditions  
 Polymerization can occur  
 Heating may cause an explosion

**SECTION 11: Toxicological information**

Repeated or prolonged contact may cause allergic reactions in very susceptible persons  
 May cause sensitization by skin contact  
 May cause sensitization by inhalation and skin contact

**Acute Toxicity**

**inhalation** Reference to other sections; 4  
**Eye Contact** Reference to other sections; 4  
**Skin contact** Reference to other sections; 4  
**INGESTION** Reference to other sections; 4

**skin corrosion/irritation** No information available

**Serious eye damage/eye irritation** No information available

**sensitization** No information available

**Germ Cell Mutagenicity** No information available

**Carcinogenicity**

Chemical name	IARC
Titanium dioxide	Group 2B

**IARC Note:**

Group 1: Carcinogenic to humans, Group 2A: Probably carcinogenic to humans, Group 2B: Possibly carcinogenic to humans, Group 3: Not classifiable as to carcinogenicity in humans

**Reproductive Toxicity** No information available

**STOT - single exposure** No information available

**STOT - repeated exposure** No information available

**Aspiration Hazard** No information available

**Numerical measures of toxicity**

11.0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 1,960.00

Chemical name	Oral LD50	dermal LD50	Inhalation LC50	Classification according to Regulation (EC) No. 1272/2008 [CLP] ANNEX VI Table 3.1 / Other	Japan GHS Classification / Other
2-Propenoic acid, phenylmethyl ester	-	-	-	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317)	Skin Irrit. 2 Eye Irrit. 2A Skin Sens. 1
Titanium dioxide	> 10000 mg/kg ( Rat )	-	-	Eye Irrit. 2B (H320)	Eye Irrit. 2B

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	-	-	-	Repr. 2 (H361f) Repr. 2 (H361)	-
2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester	-	-	-	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317)	Skin Irrit. 2 Eye Irrit. 2A Skin Sens. 1
2H-Azepin-2-one, 1-ethenylhexahydro-	-	-	-	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) STOT RE 1 (H372)	Acute Tox. Oral 4 Eye Irrit. 2 Skin Sens. 1B STOT RE 1
Morpholine, 4-(1-oxo-2-propenyl)-	-	-	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT RE 2 (H373)	-
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	-	-	-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1B STOT SE 3 Aquatic Acute 1 Aquatic Chronic 1

**GHS/CLP Classification Note:**

Acute Tox. Der. :Acute toxicity - Dermal, Acute Tox. Inh. (D/M) :Acute toxicity - Inhalation - Dusts and Mists, Acute Tox. Inh. (Gas) :Acute toxicity - Inhalation - Gases, Acute Tox. Inh. (Vap) :Acute toxicity - Inhalation - Vapours, Acute Tox. Oral :Acute toxicity - Oral, Aquatic Acute :Acute Hazardous to the aquatic environment, Aquatic Chronic :Chronic Hazardous to the aquatic environment, Asp. Tox. :Aspiration hazard, Carc. :Carcinogenicity, Expl. :Explosives, Eye Dam. :Serious eye damage, Eye Irrit. :Eye irritation, Flam. Gas :Flammable gases (including chemically unstable gases), Flam. Liq. :Flammable liquids, Flam. Solid :Flammable solids, Lact. :Effects on or via lactation, Met. Corr. :Corrosive to metals, Muta. :Germ cell mutagenicity, Org. Perox. :Organic peroxides, Ox. Gas :Oxidizing gases, Ox. Liq. :Oxidizing liquids, Ox. Sol. :Oxidizing solids, Press. Gas :Gases under pressure, Pyr. Liq. :Pyrophoric liquids, Pyr. Sol. :Pyrophoric solids, Repr. :Reproductive toxicity, Resp. Sens. :Respiratory sensitization, Self-heat. :Self-heating substances and mixtures, Self-react. :Self-reactive substances and mixtures, Skin Corr. :Skin corrosion, Skin Irrit. :Skin irritation, Skin Sens. :Skin sensitization, STOT RE :Specific target organ toxicity – Repeated exposure, STOT SE :Specific target organ toxicity – Single exposure, Water-react. :Substances and mixtures which, in contact with water emit flammable gases

**SECTION 12: Ecological information**

**ecotoxicity**

91.9 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and degradability** No information available

**Bioaccumulation** No information available

**Mobility** No information available

**Other adverse effects** No information available

**SECTION 13: Disposal considerations**

**Waste from Residues / Unused Products** Should not be released into the environment. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Improper disposal or reuse of this container may be dangerous and illegal.



**OTHER INFORMATION**

Store in a tightly sealed drum to prevent the spillage of the content

**SECTION 14: Transport information**

Containers/vessels must be leakage-free. Loading must be done to prevent containers from falling, dropping down and being damaged  
 Take necessary steps to prevent collapse  
 Use opaque containers/vessels for storage and transport

**UN number** UN3082  
**Packing group** III  
**ERG Code** 171  
**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

**IMDG**

**UN number** UN3082  
**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class** 9  
**Packing group** III  
**EmS-No** F-A, S-F

**IATA**

**UN number** UN3082  
**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class** 9  
**Packing group** III  
**ERG Code** 9L

**SECTION 15: Regulatory information**

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

**Prevention and Control of Occupational Diseases** Present  
**Regulations on Safe Management of Hazardous chemicals** Not applicable  
**Regulation on the Administration of Precursor Chemicals** Not applicable  
**Harmonized Commodity Description and Coding System**  
 The Law of the People's Republic of China on Import and Export Commodity Inspection Not applicable  
**Regulations for Environmental Management on the Import and Export of Toxic Chemicals** Not applicable  
**Road transport management regulations for dangerous goods** Not applicable

**SECTION 16: Other information**

**Issue date** 25-Jul-2016 (DD-MMM-YYYY)  
**Key literature references and sources for data** LOLI Database (ChemADVISOR, Inc.)

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**