



MSDS Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product name INK JET INK JUT - 03 CYAN

Product Name (English) INK JET INK JUT - 03 CYAN

Recommended Use Ink jet ink (UV curing)

H- Product code 042057

E- Product code F1929072-LRGB441L-LRGB441L

Company Name

Universal Phaeton Ltd.
Huiyang, Huizhou City
Guangdong, China, 516213
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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	20-30
2-Propenoic acid, 2-phenoxyethyl ester	48145-04-6	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	10-20
2H-Azepin-2-one, 1-ethenylhexahydro-	2235-00-9	10-20
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	75980-60-8	10-20
1,6-Hexanediol diacrylate	13048-33-4	< 1
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.'-1,2,3-propanetriyltris[.omega.-{(1-oxo-2-propenyl)oxy}-	52408-84-1	< 1

SECTION 4: First aid measures**General advice**

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

Inhalation

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
 Artificial respiration and/or oxygen may be necessary
 Call a physician
 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

Skin contact

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

Eye Contact

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

INGESTION	<p>Do NOT induce vomiting</p> <p>Clean mouth with water and drink afterwards plenty of water</p> <p>Never give anything by mouth to an unconscious person</p> <p>Call a physician or poison control center immediately</p> <p>Call a physician</p> <p>Potential for aspiration if swallowed</p> <p>Get medical attention</p> <p>Clean mouth with water</p>
Self-protection of the first aider	<p>Use personal protection recommended in Section 8 Avoid contact with skin, eyes or clothing</p>
Note to physicians	<p>May cause sensitization of susceptible persons Treat symptomatically</p>

SECTION 5: Fire fighting measures

Suitable extinguishing media	<p>CO2, dry chemical, dry sand, alcohol-resistant foam, mist of alkali salts water</p> <p>Move containers from fire area if you can do it without risk</p> <p>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment</p> <p>Remove combustible materials from their surroundings immediately</p>
Specific hazards arising from the chemical	<p>In the event of fire and/or explosion do not breathe fumes</p> <p>May cause sensitization by inhalation and skin contact</p> <p>Thermal decomposition can lead to release of irritating and toxic gases and vapors</p> <p>The product causes irritation of eyes, skin and mucous membranes</p>
Special protective equipment for fire-fighters	<p>Wear self contained breathing apparatus for fire fighting if necessary</p> <p>Use personal protective equipment as required</p> <p>In the event of fire and/or explosion do not breathe fumes</p> <p>Special protective equipment for fire-fighters</p>
Flammable properties	<p>May re-ignite after fire is extinguished Flammable/combustible material</p>
Unsuitable extinguishing media	<p>Do not use a solid water stream as it may scatter and spread fire</p>
Special Extinguishing Media	<p>Cool container with water spray</p>

SECTION 6: Accidental release measures

Environmental Precautions	<p>Prevent further leakage or spillage if safe to do so</p> <p>Prevent product from entering drains</p> <p>Do not flush into surface water or sanitary sewer system</p> <p>See Section 12 for additional Ecological Information</p> <p>Dispose of contents/container to an approved waste disposal plant</p> <p>Avoid release to the environment</p> <p>Collect spillage</p>
Methods for cleaning up	<p>Cover liquid spill with sand, earth or other non-combustible absorbent material</p> <p>Cover powder spill with plastic sheet or tarp to minimize spreading</p> <p>Sweep up and shovel into suitable containers for disposal</p> <p>Soak up with inert absorbent material</p> <p>Dam up</p> <p>Pick up and transfer to properly labeled containers</p> <p>Use only non-sparking tools</p>

Personal precautions

- 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

OTHER INFORMATION

Methods for Containment

- Ventilate the area
- 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

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
Skin and Body Protection	Wear safety glasses with side shields (or goggles) 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	
Property	Values	Remarks • Flash point measuring method
pH	Not applicable	
Melting point/freezing point	no data available	
Boiling point/boiling range	no data available	No information available
Flash Point	> 94°C	Seta Closed Cup
Evaporation Rate	no data available	No information available
Combustibility explosive limits	no data available	
Explosive upper limit	no data available	
Explosive lower limit	no data available	
vapor pressure	no data available	No information available
Vapor density	no data available	No information available
Specific gravity solubility(ies)	1.00-1.10	
Water solubility	Immiscible in water	
Organic Solvent Solubility	soluble in organic solvents	
Partition coefficient	no data available	No information available
Autoignition temperature	no data available	No information available
decomposition temperature	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/cm ³ at 20 °C	-	-	-	-
1,6-Hexanediol diacrylate	-	-	0.0005 mmHg at 21 °C	-	132 °C closed cup	-

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	No information available
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

13.3% 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) 1,844.00

Chemical name	Oral LD50	dermal LD50	Inhalation LC50	Classification according to Regulation (EC) No. 1272/2008 [CLP] ANNEX VI Table3.1 / Other	Japan GHS Classification
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
2-Propenoic acid, 2-phenoxyethyl ester	-	-	-	Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Skin Sens. 1 Aquatic Chronic 2
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)	-
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
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	-	-	-	Repr. 2 (H361f) Repr. 2 (H361)	-
1,6-Hexanediol diacrylate	-	-	-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Aquatic Chronic 1 Aquatic Acute 1 Skin Sens. 1
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.', .alpha. ha."-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propenyl)oxy]-	-	-	-	Eye Irrit. 2A (H319) Skin Sens. 1 (H317)	Eye Irrit. 2A Skin Sens. 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

72.0% of the mixture consists of components(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 Not applicable

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

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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