



MSDS Safety Data Sheet

Issue date 08-Jan-2016 (DD-MMM-YYYY)

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product name INK JET INK JUT - 03 YELLOW

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

Recommended Use Ink jet ink (UV curing)

H- Product code 042150

E- Product code F1929072-LRGB4432-LRGB4432

Company Name Universal
Phaeton Ltd.
Huiyang, Huizhou City
Guangdong, China, 516213
+86 752 3737219

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, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	5888-33-5	10-20
Morpholine, 4-(1-oxo-2-propenyl)-	5117-12-4	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
2-Propenoic acid, 2-phenoxyethyl ester	48145-04-6	5-10
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-p rophenyl)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

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

Self-protection of the first aider

Use personal protection recommended in Section 8 Avoid contact with skin, eyes or clothing

Note to physicians

May cause sensitization of susceptible persons Treat symptomatically

SECTION 5: Fire fighting measures

Suitable extinguishing media	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
Specific hazards arising from the chemical	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
Special protective equipment for fire-fighters	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
Flammable properties	May re-ignite after fire is extinguished Flammable/combustible material
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire
Special Extinguishing Media	Cool container with water spray

SECTION 6: Accidental release measures

Environmental Precautions	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
Methods for cleaning up	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
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

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</u> • <u>Flash point measuring method</u>
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

16.9% 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) 1,769.00

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, 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)	-
Morpholine, 4-(1-oxo-2-propenyl)-	-	-	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT RE 2 (H373)	-
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)	-
2-Propenoic acid, 2-phenoxyethyl ester	-	-	-	Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Skin Sens. 1 Aquatic Chronic 2
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.'-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**

80.3% 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
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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
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Regulations on Safe Management of Hazardous chemicals	Not applicable
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Regulation on the Administration of Precursor Chemicals	Not applicable
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Harmonized Commodity Description and Coding System

The Law of the People's Republic of China on Import and Export Commodity Inspection	Not applicable
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Regulations for Environmental Management on the Import and Export of Toxic Chemicals	Not applicable
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Road transport management regulations for dangerous goods	Not applicable
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SECTION 16: Other information

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Key literature references and sources for data	LOLI Database (ChemADVISOR, Inc.)
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Disclaimer

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End of Safety Data Sheet